



# VALVE DATA MANUAL



THE AUTOMATIC COIL WINDER & ELECTRICAL EQUIPMENT CO. LTD.

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THE  
AVO  
VALVE DATA  
MANUAL

EIGHTH EDITION



*PUBLISHED BY*  
THE AUTOMATIC COIL WINDER & ELECTRICAL EQUIPMENT CO. LTD.  
"AVOCET HOUSE," 92-96, VAUXHALL BRIDGE ROAD, LONDON, S.W.1  
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THE AVO VALVE CHARACTERISTIC METER Mk III

## **FOREWORD**

This data manual is primarily intended for use with the “AVO ” Valve Characteristic Meter and “AVO ” Valve Tester, but once the Selector Switch code is known, the manual also forms a quick and convenient guide for general use.

The Instruction Book which accompanies the Valve Characteristic Meter should be thoroughly studied before the data contained in this manual is used in conjunction with the instrument, but as a convenient guide to the user who is already familiar with the full instruction book, abbreviated working instructions for the instrument are given in this publication. Abbreviated working instructions are also given for the “AVO ” Valve Tester.

It is our intention to issue revised copies of this manual from time to time and dates of publication and price will be given in our advertisements in the Trade Press.

The return of the attached binder will enable us to inform you when new issues become available.

**WATCH OUR ADVERTISEMENTS FOR FURTHER ANNOUNCEMENTS.**

# Contents

Foreword .. .. .	3
Abbreviated working instructions for the “AVO ” Valve Characteristic Meter Mks. I & II	5
Abbreviated working instructions for the “AVO ” Valve Characteristic Meter Mk. III	7
Abbreviated working instructions for the “AVO ” Valve Tester .. .. .	9
Diagram of Standard Pin Connections .. .. .	12
Civilian Equivalents of Service Types .. .. .	13
B.V.A. Utility Equivalents .. .. .	20
Valve Data for Receiving and Small Transmitting Valves .. .. .	21
Data for Tuning Indicators (Magic Eyes) .. .. .	105
Stop Press Data .. .. .	107

Whilst every care has been taken in the preparation of this manual to ensure that the data given is correct, the Company cannot accept any responsibility for damage caused to a valve under test, or the instrument, due to the inclusion of incorrect information.

## ABBREVIATED WORKING INSTRUCTIONS FOR THE "AVO" VALVE

### CHARACTERISTIC METER Mks. I & II.

The brief notes which follow are intended to act as a guide to the operator who has already studied, and is familiar with, the contents of the Instruction Manual issued with the instrument.

1. Check mains adjustment tap and connect mains lead to the supply, red and black leads are line and neutral, green or yellow, the Earth connection.
2. Set "CIRCUIT SELECTOR" to "CHECK (C)".
3. Set "METER SELECTOR" to 100 on outer scale.
4. Turn "SET ZERO" Control fully clockwise.
5. Set "FILAMENT VOLTAGE" switches to value indicated in Valve Data.
6. Set "ANODE VOLTS", "SCREEN VOLTS", and "GRID VOLTS" to values indicated in Valve Data.
7. Set "ROLLER SELECTOR" switch as indicated in Valve Data.
8. Switch "ON", press "RESET" button, release, and with "ELECTRODE LEAKAGE" switch at "∞" adjust movement pointer to position "∞" by means of "SET ∞" switch.

### ALL VALVES.

1. Insert Valve.
2. Fully rotate "ELECTRODE LEAKAGE" switch, check heater continuity at "H" and insulation on all other positions.
3. Set "CIRCUIT SELECTOR" at "CHECK (H)" to measure leakage from Heater/Cathode to all other electrodes strapped, with valve hot.
4. Turn "CIRCUIT SELECTOR" to "C/H ins." to measure leakage between heater and cathode with valve hot (if valve is indirectly heated).

### TRIODES, DOUBLE TRIODES, DIODE TRIODES, PENTODES, DOUBLE PENTODES, DIODE PENTODES AND TETRODES IN SIMILAR COMBINATION.

ANODE CURRENT. Turn "ANODE SELECTOR" to "A<sub>1</sub>". "CIRCUIT SELECTOR" to "TEST". Meter should then indicate "ANODE CURRENT". Reduce "METER SELECTOR" switch setting if required. If the meter lamps go out, do not press "RESET" button until you have checked for faulty settings on "ROLLER SELECTOR" switch. If these are in order, the valve is probably "soft" and the test should proceed no further.

MUTUAL CONDUCTANCE. Reduce Meter reading to "ZERO" by means of the "SET ZERO" control. Press "mA/V" Button. Meter reading in milli-amps represents "MUTUAL CONDUCTANCE" in "mA/V". To test on "GOOD/BAD" scale, reduce meter readings to "ZERO" as before, turn "METER SELECTOR" switch to "mA/V" position. Adjust "SET mA/V" control to figure given in the Valve Data. Press "mA/V" Button. A good valve should read within the green band on the meter.

For double valves, check data for difference in electrode voltages and repeat above operation at A<sub>2</sub>.

GAS TEST. To measure Grid current, proceed as for mutual conductance, using "GOOD/BAD" scale. Reduce meter reading to "ZERO" by means of the "SET ZERO" control, press "mA/V" button, adjust meter reading to full scale by means of "SET mA/V" control. Release "mA/V" button, press "GAS" button. Full scale deflection will now represent  $10\mu\text{A}$  Grid Current. For currents over  $10\mu\text{A}$  use method given in full instruction book.

DIODES. To measure "DIODES" set the "METER SELECTOR" switch to 1 on inner ring of figures and "ANODE SELECTOR" switch to " $A_1$ ", turn "CIRCUIT SELECTOR" switch to "DIODE". Check double diodes at " $A_1$ " and " $A_2$ ".

RECTIFIERS. Proceed as above to test for electrode leakage, heater/cathode leakage, etc. Using inner ring of figures, set "METER SELECTOR" switch to load shown in Valve Data, turn "CIRCUIT SELECTOR" switch to "REC" Good valves will read in green band on meter scale. Load reading is per anode.

NOTE. When using a recently produced instrument to check valves having a cathode top cap connection, the flying lead cathode socket will be found in the base of the "P" Type Valveholder (8SC, see page 12).

This socket is not fitted to earlier instruments and the following procedure should therefore be observed. Locate an unconnected pin (not internally connected to an element within the valve) upon the valve to be tested, set the appropriate roller to  $\frac{1}{c}$ , connect flying lead to valve top cap and insert plug in any valve holder pin corresponding to the roller set to  $\frac{1}{c}$ .

TUNING INDICATORS. (MAGIC EYES). For testing data see page 105.

#### Abbreviations used in this Manual.

For detailed information, refer to the working instructions for the Valve Characteristic Meter.

D, DD, DDD, - Diodes.

DT, DDT, DP, DDP. - Valve with another electrode assembly in addition to the diode.

H. - Heptode or Hexode.

N. - Nonode.

O. - Octode.

P. - Pentode, PP. - Double pentode.

T. - Triode. TT. - Double triode. TH. - Triode Heptode, or Triode Hexode.

TP. - Triode pentode.

R. - Rectifier. RR. - Full wave rectifier.

\* - Denotes internally connected pin.

†. - Third diode in triple diode,

## ABBREVIATED WORKING INSTRUCTIONS FOR THE "AVO" VALVE

### CHARACTERISTIC METER MARK III.

Before switching "ON" the full Instruction Book should be read and always used for reference when testing unusual types of valves.

1. Check mains adjustment tap and connect mains lead to the supply, red and black leads are line and neutral, green or yellow being the earth connection.
2. Set "CIRCUIT SELECTOR" or "CHECK C" and "ELECTRODE SELECTOR" to "A<sub>1</sub>".
3. Set "METER SWITCH" to 100 on the Ia scale.
4. Turn "BACKING OFF" controls fully anti-clockwise.
5. Set "HEATER VOLTS" switches to value indicated in Valve Data.
6. Set "ANODE VOLTS", "SCREEN VOLTS" and "GRID VOLTS" to values indicated in Valve Data.
7. Rotate the "SET Ma/V" control to figure given in Valve Data using (where possible) the inner scale and appropriate setting of associated switch.
8. Set "ROLLER SELECTOR" switch as indicated in Valve Data and ensure that A<sub>1</sub> and A<sub>2</sub> links are tight. (For "\*" in data read "0").
9. With leakage switch at "∞", switch on, and allow instrument to warm up. Adjust pointer to position "∞" by means of "SET∞" switch.

### ALL VALVES.

1. Insert valve, and make any top cap connections if required.
2. Fully rotate "LEAKAGE" switch, check heater continuity at "H" and insulation on all other positions.
3. Set "CIRCUIT SELECTOR" to "CHECK H" to measure leakage from Heater/Cathode to all other electrodes strapped together with valve hot.
4. Turn "CIRCUIT SELECTOR" to "C/H" to measure leakage between heater and cathode with valve hot (if valve is indirectly heated).

### TRIODES, DOUBLE TRIODES, DIODE TRIODES PENTODES, DOUBLE PENTODES, DIODE PENTODES AND TETRODES IN SIMILAR COMBINATION.

ANODE CURRENT. With "ELECTRODE SELECTOR" at "A<sub>1</sub>" set "CIRCUIT SELECTOR" to "TEST". Meter should then indicate anode current. Reduce METER SWITCH setting if required. *If protective relay operates, switch off and check for incorrect setting of "ROLLER SELECTOR" switch or panel controls. If all controls are correct and relay continues to operate when instrument is switched on again, the valve is probably soft and the test should be discontinued.*



MUTUAL CONDUCTANCE. Reduce meter reading to zero by means of “ BACK-ING OFF ” controls. Set “ METER SWITCH ” to “ 2.5 ” position and re-adjust zero if necessary. Turn “ METER SWITCH ” to “ mA/V ” position, when a good valve will give an indication in the green band on the meter scale. To obtain actual mA/V reading, adjust “ SET mA/V ” control until needle reads on calibration point marked 1mA/V, in centre of green band. The “ SET mA/V ” control will now indicate the mutual conductance of the valve under test. To obtain a reading for valves with mutual conductance below 3mA/V, use outer scale setting on “ SET mA/V ” control and follow the procedure outlined above. See the Instruction Manual for more detailed information on the use of the “ SET mA/V ” control.

For double valves, check data for difference in electrode voltages and repeat above operations with the “ ELECTRODE SELECTOR ” set to “ A<sub>2</sub> ”.

GAS TEST. To measure grid current set “ CIRCUIT SELECTOR ” to position “ GAS ” and the “ METER SWITCH ” to its 100mA position. Meter will now indicate gas current, full-scale indication being 100 $\mu$ A.

DIODES. To check diodes turn “ ELECTRODE SELECTOR ” to “ D<sub>1</sub> ” and “ METER SWITCH ” to “ 1mA ” on D/R scale (unless otherwise indicated in Valve Data). Turn “ CIRCUIT SELECTOR ” to “ TEST ”. The condition of the valve will now be given on the “ REPLACE/GOOD ” scale. Check double diodes at D<sub>1</sub> and D<sub>2</sub> position of the “ ELECTRODE SELECTOR ”.

RECTIFIERS. To check rectifiers, set “ ELECTRODE SELECTOR ” to “ D<sub>1</sub> ” and set anode loading given in Valve Data, on D/R scale of “ METER SWITCH ”. Turn “ CIRCUIT SELECTOR ” to “ TEST ”. The condition of the valve will now be indicated on “ REPLACE/GOOD ” scale. Load reading is per anode. Check full-wave rectifiers at positions “ D<sub>1</sub> ” and “ D<sub>2</sub> ” of “ ELECTRODE SELECTOR ” switch.

On completion of tests return controls to their fully anti-clockwise position.

## **ABBREVIATED WORKING INSTRUCTIONS FOR THE “ AVO ” VALVE TESTER.**

Although the “ Avo ” Valve Tester has been out of production for some years, the following operational notes will be of assistance to the user not entirely familiar with the instrument, and its employment in conjunction with this new data manual.

The data in the following pages for the “ AVO ” VALVE CHARACTERISTIC METER also gives sufficient information for the checking of valves with the “ AVO ” VALVE TESTER, referred to as the “ A.V.T.”

The data is presented in the following form :—

VALVE	SELECTOR SWITCH No.	T.C.	VI	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		

By taking no account of the data shown in the columns specifically marked Valve Characteristic Meter, the data applicable to the “ A.V.T.”, is obvious.

1. The voltage selector panel associated with the internal transformer in the meter unit should be set to match the voltage of the A.C. mains supply.
2. Before switching on, locate in this manual the line of data applicable to the valve to be tested and set the ANODE, SCREEN and HEATER switches to the voltages indicated. The SELECT ANODE switch should be set to “ NORMAL”, “ A2 ”, “ D<sub>1</sub> ” or “ D<sub>2</sub> ” according to the test to be undertaken, the SET ZERO control turned fully clockwise, the SET mA/V control set at 100, and the ROLLER SELECTOR SWITCH set up in accordance with the code number appearing in the data.
3. Switch on, noting that the neon indicator lights up indicating that the mains switch is on, and insert test lead plugs into the sockets in Meter Unit Panel. The neon lamp will now have been extinguished. If the Crocodile Clips at the remote ends of the leads are now connected to the valve pins in turn, shorts between the valve electrodes will be indicated by the neon lamp glowing. The test should not proceed further if shorts between electrodes (other than heater pins) are indicated.
4. Insert valve in correct socket upon valve panel and observe test procedure outlined below.

### **P. & T. (Pentodes and Triodes).**

As the valve warms up the initial anode current will be registered upon the meter and should be backed off to zero by means of the SET ZERO control. The SET mA/V control should now be set to “ mA/V ” and any adjustment required to return the needle to zero, made upon the SET ZERO control.

The toggle key is now depressed in the direction marked mA/V thus indicating the slope of the valve upon the “ mA/V ” scale. This reading should compare favourably with the figure given in the data.

The toggle key is now depressed in the direction marked C. INS. (for indirectly heated valves only) thus indicating cathode/heater insulation which should, for a good valve, be of the order of 5—10 M $\Omega$  (in the case of pentodes, for this test the SCREEN switch should be set at 60 or damage to the instrument and valve may result.).

### DT, DDT, DP, DDP (Valves with another electrode assembly in addition to diode)

The mutual conductance of the triode or pentode section is checked with anode selector at "Normal". Emission figures for each diode are then obtained as below.

"†" See information given under the heading "Diodes" below.

### TT and PP (Double Electrode Assemblies)

The mutual conductance of each half of such a valve is obtained with the anode selector at "Normal" and  $A_2$ .

Where no mutual conductance figure is given, each half of valve should be checked for matching of mutual conductance.

### R (Rectifiers)

To test rectifying valves for emission, set mA/V control at 100 and anode volts switch at "Rec". Emission of each anode (in case of full wave) will be obtained by setting anode selector at " $D_1$ " and " $D_2$ " respectively. The two emissions should match within small limits and can be compared with the figures given in the mA/V column which indicates the order of emission to be expected.

### D, DD and DDD (Diodes)

These are tested for emission for each diode with anode volts switch at "D" and anode selector at " $D_1$ " and " $D_2$ ". Set "mA/V" control at "mA/V" when reading should be greater than 0.5 for a good diode. Readings will generally be between 2 and 5. Where the symbol "†" occurs amongst the selector switch set up figures, set to  $A_2$  and test for emission of third diode with Anode Selector at  $A_2$ .

Where  $D_1$  or  $D_2$  appears under the heading "Top Cap" these should be connected to top cap "A" and tested with the anode selector at "Normal".

		<i>Selector</i>			<i>Anode</i>		
		<i>Switch</i>	<i>T.C.</i>	<i>Vf</i>	<i>Volts</i>	<i>Base</i>	<i>Type</i>
E.g.	EA50	123 000 000	$D_1$	6	D	B3G	D

Connect to Anode Top Cap (A) and check for emission of Diode with Anode Selector at "Normal".

### TH, TP, O (Frequency Changers)

To test frequency changers two sets of figures are given, first check the triode (Oscillator) section with the anode selector at "Normal" and then the pentode (mixer) section with the selector at  $A_2$ .

### SPECIAL NOTES

Due to the vast improvements in valve technique, the A.V.T. has limitations to its use. Notably the tendency to parasitic oscillations has greatly increased, and this should be borne in mind when high slope, short grid base valves of the all glass base construction are under test.

## INTERNAL CONNECTION (\*)

When the symbol \* appears among the Selector Switch set up figures, it indicates that an unknown electrode may be connected to this pin internally. To obtain the complete Selector Switch coding, test with an ohmmeter between pin marked \* and all others. (The ohmmeter should be on a sufficiently low range to discriminate between a dead short and filament resistance). Dependent upon the electrode to which this pin is internally connected the correct code can be set up and normal test procedure followed.

Where the pin marked \* is O.C. to all others Set Roller to 0.

..	..	..	..	..	..	connected to Cathode Set Roller to	..	1.
..	..	..	..	..	..	Heater —	..	2.
..	..	..	..	..	..	Heater +	..	3.
..	..	..	..	..	..	Grid	..	4.
..	..	..	..	..	..	Screen	..	5.
..	..	..	..	..	..	Anode	..	6.
..	..	..	..	..	..	Anode 2	..	7.
..	..	..	..	..	..	Diode Anode 1 Set Roller to	8.	
..	..	..	..	..	..	Diode Anode 2	..	9.

## 1.4 Volt Dry Battery Valves

To obtain the filament supply for the 1.4V series, set the filament voltage switch to 10 volts and the toggle switch on the valve holder panel to  $\div 7$  position. The toggle switch must always be returned to "Normal" after such tests. Where the Filament Voltage Extension Unit is used, 1.4 volts can be obtained direct by setting to 1.4V, but in these circumstances the  $\div 7$  toggle switch must be left at "Normal".

## Accessories for A.V.T.

If the valve base required does not appear on the Valve Holder Panel it is necessary to use an adaptor which plugs into the Octal Holder. These are supplied as follows :—

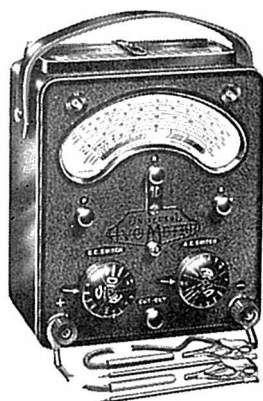
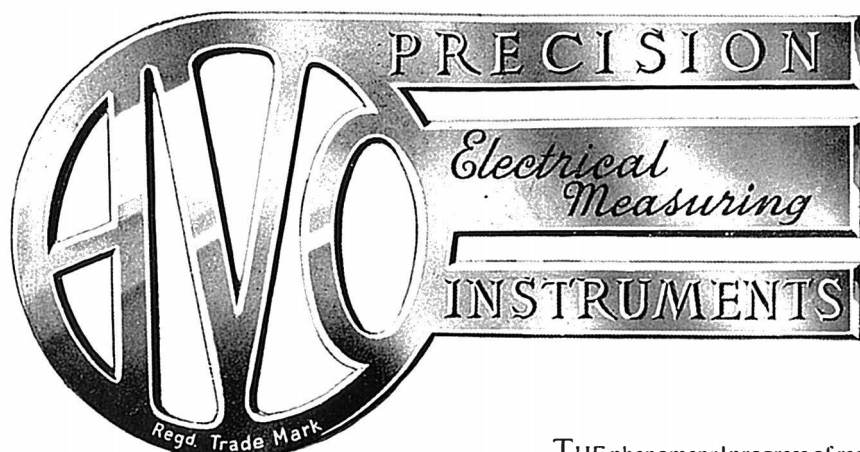
No. 1. B7G and B8A.	No. 5. Blank.
No. 2. B9G.	No. 6. Sm7 (6A7 Base).
No. 3. B8B.	No. 7. B9A.
No. 4. B3G. Hivac D.A.4 and 5 pin.	No. 8. Continental 8 pin (F8).
	No. 9. B7A

## Special Note re use of Valve Base Adaptor No. 2

When using this data in conjunction with the B9G base, Pin 1 must be connected to  $H_{3+}$ , and Pin 8 connected to  $H_{2-}$ . In these circumstances most types will give heater/cathode short which can be ignored. Apart from the filament connections referred to all other set up figures will remain as printed, but pin 9 should be connected to  $O_E$  Eg. EF50. Using Valve Base Adaptor No. 2. Selector Switch Number will read 356 101 420.

## Old Type Panels

Note that the foregoing information does not apply to the now obsolete English and American panels without roller switch.



### Model 7 Universal AVOMETER MK.II

A multi-range A.C./D.C. instrument providing 50 ranges of readings on a 5-in. hand calibrated scale. Range selection is by means of two rotary switches, for A.C. and D.C. respectively. A press button provides an additional range for each value of current and voltage shown on the switch knobs. Current consumption at full scale deflection is 1mA. or 2mA. according to whether press button is used or not. Total resistance is 500,000 ohms. By means of an external accessory (the Universal AvoMeter Power Factor and Wattage Unit) power factor and power can be measured in A.C. circuits. An automatic cut-out provides protection against damage through overload.

**Current:** A.C. and D.C. 0 to 10A.

**Voltage:** A.C. and D.C. 0 to 1,000V.

**Resistance:** Up to 40 megohms.

**Capacity:** .01 to 20 mFds.

**Audio-Frequency Power Output:** 0.2W.

**Decibels:** -25db to +16db

**Size:** 8  $\times$  7  $\frac{1}{2}$   $\times$  4  $\frac{1}{2}$  ins. **Weight:** 6  $\frac{1}{2}$  lbs.

### Model 40 Universal AVOMETER MK.II

A similar instrument to the Model 7 AvoMeter described above, but providing 40 ranges of current, voltage and resistance. Total resistance is 200,000 ohms.

**Current:** A.C. and D.C. 0 to 12 amps.

**Voltage:** A.C. and D.C. 0 to 1,200 volts.

**Resistance:** Up to 1 megohm.

**Size:** 8  $\times$  7  $\frac{1}{2}$   $\times$  4  $\frac{1}{2}$  ins. **Weight:** 6  $\frac{1}{2}$  lbs.

THE phenomenal progress of recent years in electrical engineering owes much to the contemporary advances in the design of electrical measuring instruments.

The equipment of a laboratory for making electrical measurements and tests can involve an expenditure of hundreds of pounds. Likewise the test gear essential to the work of the radio service engineer can also be a source of considerable expense.

This difficulty is largely surmounted, and other advantages are conferred, by the use of modern multi-range testing instruments, which afford maximum usefulness with a reasonable initial outlay.

"AVO" Instruments are scientifically designed on sound principles, being the outcome of many years of successful experience by the pioneers and leading manufacturers of multi-range instruments. Before leaving our factory, every "Avo" Instrument is tested and adjusted to give a high degree of accuracy and constancy of performance.

*All AvoMeters and AvoMinors conform with the limits of accuracy laid down in Section 6 of the British Standard Specification 89/1954, for Industrial Portable Instruments.*

### Model 8 Universal AVOMETER

A recent version of the Universal AvoMeter having a sensitivity of 20,000 ohms per volt on all D.C. ranges, and 1,000 ohms per volt on A.C. ranges from 100V. upwards. In addition to the many well-known AvoMeter features, such as the automatic overload protection device, dual knob range selection, etc., it has a push button for reversing the polarity of the movement to obviate the inconvenience of changing over the leads when encountering opposite potentials in respect to a common reference point.

#### ACCURACY

A.C. Ranges and D.C. Current ranges to Section 6 BS 89/1954. D.C. Volts 2% of indication full to half scale; 1% full scale value below half scale.

**Voltage:** A.C. and D.C. 0 to 2,500 volts.

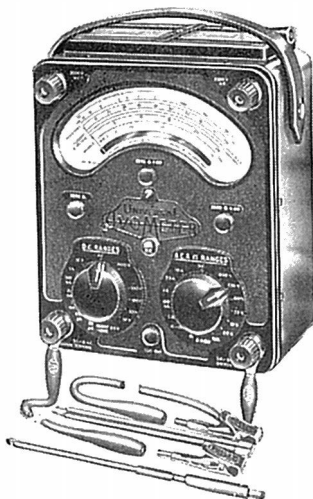
**Current:** A.C. and D.C. 0 to 10 amps.

**Resistance:** 0-20 megohms with internal batteries.

0-200 megohms with external D.C. supply

**Decibels:** -15db to +15db

**Size:** 8  $\frac{1}{2}$   $\times$  7  $\frac{1}{2}$   $\times$  4  $\frac{1}{2}$  ins. **Weight:** 6  $\frac{1}{2}$  lbs.





# Electrical TESTING INSTRUMENTS



## 'Avo' ELECTRONIC TESTMETER

A highly stable thermionic D.C. Millivoltmeter with subsidiary circuit switching giving 56 ranges of readings as follows:—

**D.C. Volts:** 5.0mV. to 10,000V. Max. Input Resistance 110 megohms.

**D.C. Current:** 0.5 $\mu$ A to 1A. (250mV. drop on all ranges).

**A.C. Volts:** 0.1V. to 2,500V. R.M.S. up to 2 Mc/s. With diode probe external 0.1V. to 250V. R.M.S. usable to 200 Mc/s.

**A.C. Output Power:** 5mW. to 5 watts in 6 different load resistances from 5 to 5,000 ohms.

**Decibels:** -10db to +20db Zero level 50mW.

**Capacity:** .0001 $\mu$ F to 50 $\mu$ F.

**Resistance:** 0.2 ohm to 10 megohms.

**Insulation:** 0.1 megohm to 1,000 megohms.

**Power Supply:** 100-130V. and 200-260V., 50-60 c/s. A.C.

**Size:** 12 $\frac{1}{2}$   $\times$  9  $\times$  5 $\frac{1}{2}$  ins. **Weight:** 12 $\frac{1}{2}$  lbs.

## PANCLIMATIC AVOMETERS

The standard Avometers can be relied upon to give excellent service in any climate. However, where extremes of climatic conditions are experienced, special protection is desirable for certain components.

In affording this protection, advantage has been taken of the latest developments in panclimatic techniques—for example, the use of new moulding powders in the manufacture of the cases and the "potting" of certain components to render them completely impervious to extremes of humidity and resistant to fungus growth.

These special instruments are now available at a small additional charge and are known as:—

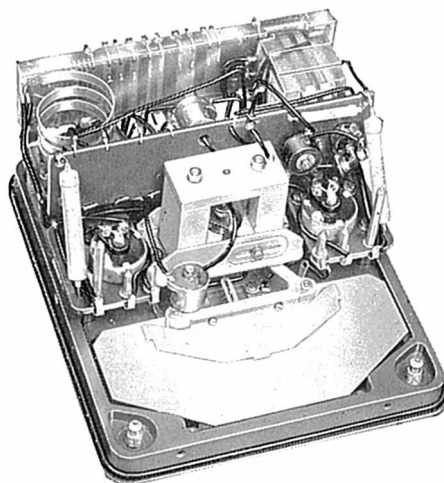
The Model 7X Avometer  
The Model 8X Avometer  
The Model 8(S)X Avometer



## 'Avo' ELECTRONIC TEST UNIT

An instrument designed to provide, at reasonable cost, electronic amplification facilities for the measurement of small values of A.C. Voltages, Inductance, Capacity and "Q" at radio frequencies. May be used with any Valve Voltmeter and Signal Generator of good wave form, but the ranges have been selected specially to suit those of the "Avo" Electronic Testmeter and "Avo" Signal Generators. The instrument operates on A.C. mains, 100-130V. and 200-260V., 50-60 c/s.

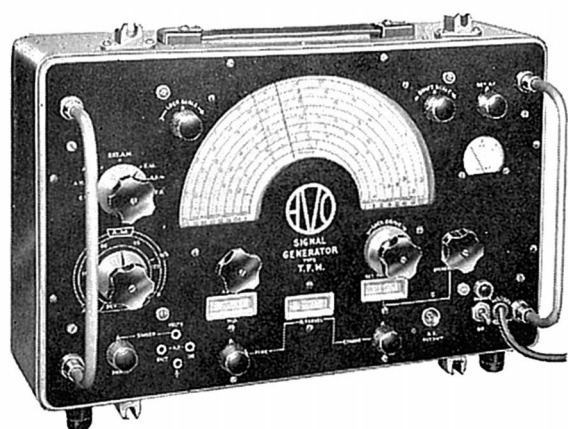
**Size:** 12 $\frac{1}{2}$   $\times$  9  $\times$  5 $\frac{1}{2}$  ins. **Weight:** 9 lbs.



This shows the internal construction of a typical Panclimatic Avometer



# Electrical TESTING INSTRUMENTS



**'AVO' Wide Band A.M./F.M. SIGNAL GENERATOR**  
(Type T.F.M.)

Operating on Fundamentals and designed primarily for the television and F.M. Engineer, this instrument incorporates a number of additional refinements to enable it to deal satisfactorily with the very stringent requirements of the new bands.

**A.M. Coverage:** 5-220 Mc/s in 8 ranges, CW or 400 c/s sine/square wave modulation. Accuracy  $\pm 1\%$ . Provision for R.F. spot frequency calibration.

**F.M. Coverage:** 65-120 Mc/s. Accuracy  $\pm 1\%$ . Maximum deviation  $\pm 150$  kc/s.

**Output:** Minimum (about  $2\mu$ V) to 100 mV continuously variable with decade multiplier. Force output 250mV.

**Output Impedance:** 80 $\Omega$ , 200 $\Omega$ , balanced 80 $\Omega$  and 300 $\Omega$ .

L.F. signal is available for test purposes, and the instrument can be modulated from an external source (A.M. only). A double-ratio slow-motion mechanism, together with interpolation dial, enables the instrument to be set with a high degree of accuracy. On the F.M. range an internal phasing control enables the modulation signal to be applied to the X-plates of an oscillograph to produce a picture of a discriminator response curve.

Size:  $15\frac{1}{4} \times 10\frac{1}{2} \times 10$  ins., approx. Weight: 16 lbs. approx.



## HEAVY DUTY AVOMETER

An A.C./D.C. moving coil meter specially designed for use under conditions where an exceptionally robust and portable instrument is required. 18 ranges of direct readings on a  $3\frac{1}{2}$  in. scale.

**Current:** A.C. and D.C. 10mA, 100mA, 1A, 10A.

**Voltage:** A.C. and D.C. 10, 25, 250, 1,000V.

**Resistance:** 0-500 ohms. (Midscale 12.5 ohms.)

0-50,000 ohms. (Midscale 1,250 ohms.)

**Sensitivity:** D.C. voltage ranges, 1,000 ohms. per volt.

A.C. voltage ranges except 10-volt range, 500 ohms. per volt.

10-volt A.C. range, 200 ohms. per volt.

Size:  $7\frac{3}{8} \times 5\frac{3}{8} \times 4$  ins. Weight:  $5\frac{1}{2}$  lbs.



**'AVO' SIGNAL GENERATOR**  
Type III

An inexpensive A.M. Signal Generator of entirely new design for the Service Engineer. Operates on Fundamentals and provides six frequency bands covering 150 kc/s - 220 Mc/s. Accuracy  $\pm 1\%$ .

150 kc/s — 500 kc/s	} Continuous wave or modulated at 1,000 c/s. L.F. signal available for test purposes.
500 kc/s — 1.6 Mc/s	
1.6 Mc/s — 5.5 Mc/s	
5.5 Mc/s — 18 Mc/s	
18 Mc/s — 70 Mc/s	
70 Mc/s — 220 Mc/s	

A new type of attenuator, ensures close adherence of the output to the attenuator calibration. The instrument provides a force output of 250 mV, whilst the following outputs are available via the attenuator:-

Minimum to 100 $\mu$  V,  $\times 1$ ,  $\times 10$ ,  $\times 100$ ,  $\times 1000$ .  
Output impedances—80 $\Omega$ , 200 $\Omega$  and 400 $\Omega$ .

Size:  $12 \times 8\frac{1}{2} \times 5\frac{1}{2}$  ins approx.

Weight:  $7\frac{1}{2}$  lbs. approx.

Both Signal Generators operate on 100-120, 200-260V, 50-60 c/s. A.C. Mains. They are light and compact, and employ double screening to ensure minimum radiation.



# Electrical TESTING INSTRUMENTS



## Universal AVO MINOR—Model 1

A small but highly accurate moving-coil instrument for measuring A.C. and D.C. current and resistance. Total resistance is 200,000 ohms on 500V. range. 22 ranges of readings on a 3-in. scale. (400  $\Omega/v$ )

## Universal AVO MINOR—Model 2

A similar instrument to Universal AvoMinor Model 1, but measuring up to 1,000 volts with increased sensitivity. (4,000  $\Omega/v$ )

Size:  $4\frac{1}{2} \times 3\frac{3}{8} \times 1\frac{7}{8}$  ins. Weight: 18 ozs.

Supplied complete with leads, interchangeable crocodile clips and testing prods, and instruction book.

Power, Power Factor and kVAR can now be measured on the AvoMeter by means of the AVO Power Factor and Wattage Unit. Send for free illustrated leaflet.

### The following ACCESSORIES are available for 'Avo' Testing Instruments.

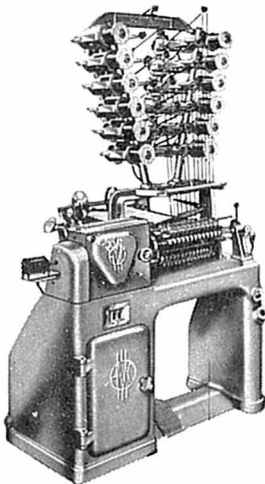
AvoMeter Voltage Multipliers.  
AvoMeter Transformers for A.C.  
Current Measurements.  
AvoMeter Resistance Range  
Extension Units.

AvoMeter Shunts for D.C. Current  
AvoMinor Voltage Multipliers.  
AvoMinor Resistance Range  
Extension Units.  
AvoMinor Shunts.

25kV. D.C. Voltage multipliers can be supplied for the 'AVO' Electronic Testmeter, the 'AVO' Electronic Multimeter and the Model 8, 8X and 8(S)X AvoMeters.

*Leather Cases are available for most Instruments.*

● A Comprehensive Guide to the complete range of 'Avo' Instruments is available.



## DOUGLAS and MACADIE COIL WINDERS

The Machine illustrated is the "Douglas" Fully Automatic Multi-Winder, for the high-speed production of large quantities of coils with or without paper interleaving. It will produce round, square or rectangular coils up to 6 in. each in length, and up to  $4\frac{1}{2}$  in. diameter. As many as 12 smaller coils can be wound simultaneously within the total available winding length of 15 inches, at headstock speeds of between 600 and 2,000 r.p.m.

Our complete catalogue illustrates twenty-seven different machines, ranging from a simple Hand-Winder to the Double-Bank Multi-Winder capable of producing 24 coils simultaneously, also Taping Machines and a Cotton Inserter Attachment.

*Sole Proprietors and Manufacturers :*

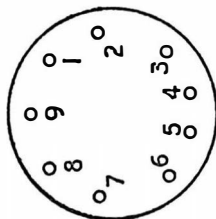
**THE AUTOMATIC COIL WINDER & ELECTRICAL EQUIPMENT CO. LTD.**  
**LONDON, S.W.1., ENGLAND.**

Telephone: Victoria 3404 (9 lines).

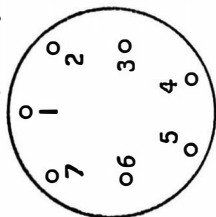
Telegrams: Autowinda, Sowest, London.



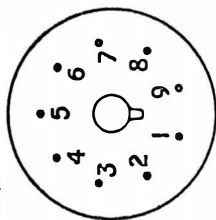
# **DIAGRAM OF STANDARD PIN CONNECTIONS** (viewed from underside of base)



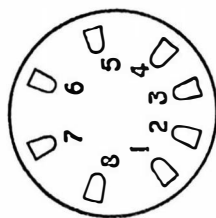
**BRITISH NINE PIN (B9)**



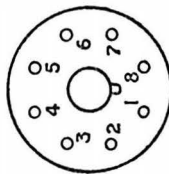
**BRITISH SEVEN PIN (B7)**



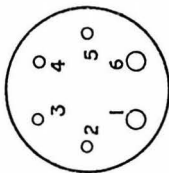
**B9G**



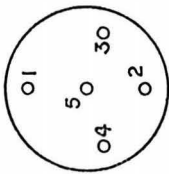
**'P' TYPE BASE (8SC)**



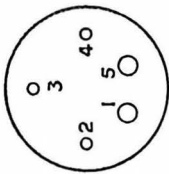
**INTERNATIONAL OCTAL (AO8)**



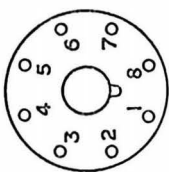
**AMERICAN SIX PIN (UX6)**



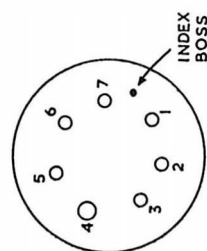
**BRITISH 4/5 PIN (B5&B4)**



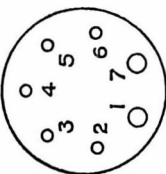
**AMERICAN FIVE PIN (UX5)**



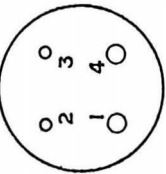
**MAZDA OCTAL (MO8)**



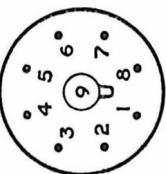
**B7A**



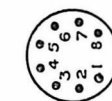
**AMERICAN SMALL SEVEN PIN (SM7)**



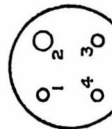
**AMERICAN FOUR PIN (UX4)**



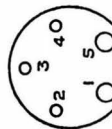
**AMERICAN OCTAL (B8B or B8G)**



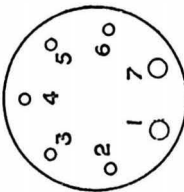
**SUB MINIATURE 8 PIN (B8D)**



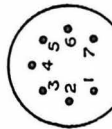
**HIVAC FOUR PIN (SM4)**



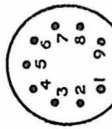
**HIVAC FIVE PIN (SM5)**



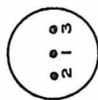
**AMERICAN SEVEN PIN (UX7)**



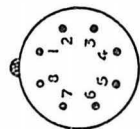
**B7G**



**B9A**



**B3G**



**B8A**

## CIVILIAN EQUIVALENTS OF SERVICE TYPES

Service No.	Civilian No.	Service No.	Civilian No.	Service No.	Civilian No.	Service No.	Civilian No.
AR4	PMIHF	ARP38	KTZ73	CVI28	SU750	CV394	EM34
AR5	P220	ARS7	VS24	CVI31	9D6	CV408	A1714
AR6	LP2	ARS8	PM12V	CVI33	6C4	CV409	A1820
AR7	4DI	ARTH2	ECH35	CVI35	EY9I	CV415	TT15
AR8	HL23DD	ARTPI	TP22	CVI36	7D9	CV416	6F17
AR9	PMILF	ARTP2	TP25	CVI37	EAC9I	CV417	EC9I
AR10	TDD2A	AT20	MZ05/20	CVI38	EF9I	CV419	EC9I
AR11	4019B	ATS25	807	CVI40	6AL5	CV423	25SN7
AR12	4020A	ATP4	V248A	CVI52	GU2I	CV424	QQV06-40
AR13	B406	ATP5	V245	CVI71	W2I	CV426	EY5I
AR14	220RC	ATP7	V266	CVI73	EF55	CV428	5B/251M
AR15	220LF	ATPI0	4061A	CVI77	8I3	CV430	29CI
AR16	220B	ATP35	PVI-35	CVI81	ECC32	CV437	KT67
AR17	MH4	AUI	UI8	CVI82	EI488	CV450	EL38
AR20	4021B	AU2	RG250	CVI85	PM202	CV452	6AT6
AR21	EBC33	AU3	UI2/I4	CVI87	UI9	CV453	6BE6
ARD2	DI	AU3A	I56I	CV200	MZ2-200	CV454	6BA6
ARD4	D42	AU4	UI7	CV201	V630	CV455	12AT7
ARDDI	I0DI	AU5	V1907	CV207	AC/P4	CV465	EF72
ARDD3	6H6	AU6	GU50	CV222	EI489	CV466	EF73
ARDD5	EB34	AU8	U22	CV235	U23	CV467	EF70
ARHI	6L7	AUI2	UI5	CV243	4045A	CV468	EC70
ARPI	PT2	AUI3	5Z4	CV244	AF2	CV469	EA76
ARP2	SP2	AW5	ME4I	CV245	4328D	CV471	EL70
ARP3	9D2	AW6	EM3I	CV249	4019A	CV473	EY70
ARP4	SP210	CVI	DO5I	CV260	SP6I	CV475	EF7I
ARP5	VP2	CV4	EI229	CV261	R10	CV490	19H5
ARP6	SP4	CV5	CVI52	CV265	19E2	CV491	12AU7
ARP7	42MPT	CV6	EI148	CV266	EI336	CV492	12AX7
ARP8	AC4Pen	CV8	EI356	CV276	11E2	CV493	6X4
ARP9	Pen1340	CV9	AL60	CV278	E1606	CV499	5B/256M
ARP9A	7D8	CVI8	DET19	CV281	X6I	CV500	6T7
ARPI0	PenA4	CV20	V1906	CV283	6AL5	CV501	EBF32
ARPI1	TSP4	CV21	VP4I	CV302	ECH22	CV503	5W4
ARPI2	VP23	CV24	HL4I	CV303	EF22	CV504	6U5
ARPI3	VP210	CV26	8I3	CV304	EL22	CV509	6V6G
ARPI4	220IPT	CV31	U20	CV305	EF5I	CV510	6V6
ARPI5	KTW63	CV32	RG3-250M	CV309	QV04-7	CV511	6V6
ARPI6	6J7	CV33	4077A	CV321	KT66	CV512	6W7
ARPI7	6F6	CV51	EI320	CV324	CVI628	CV515	6Y6
ARPI8	KT24	CV53	3A/I46J	CV327	EF52	CV517	0Z4A
ARPI9	SP4I	CV54	V960	CV329	6F33	CV518	AC/VPI
ARP20	SP42	CV63	EI323	CV344	EI323	CV519	Pen 4DD
ARP21	Z62	CV65	Pen25	CV345	12EI	CV520	VP2B
ARP22	116/Pen	CV66	RL37	CV346	EZ22	CV522	7B7
ARP23	MS/Pen	CV72	V1120	CV347	EBC2I	CV523	12Y4
ARP24	220VPT	CV73	11E3	CV352	EBC33	CV524	TT12
ARP25	KT4I	CV78	EI137	CV358	EF37A	CV525	12A6
ARP26	KT44	CV82	3A/I47J	CV371	19G6	CV526	12A6
ARP33	MSP4	CV84	4033A	CV372	3C45	CV529	12AH7
ARP34	EF39	CVI18	SP6I	CV375	EA50	CV531	12C8
ARP35	EF50	CVI21	V1920	CV378	53KU	CV534	12J5
ARP36	SP6I	CVI22	EI336	CV380	EF54	CV535	12J5
ARP37	QP25	CVI24	807	CV391	5B/255M	CV537	12SA7

Service No.	Civilian No.	Service No.	Civilian No.	Service No.	Civilian No.	Service No.	Civilian No.
CV538	I2SA7	CV608	41	CV730	6A3	CV828	4TPB
CV540	I2SC7	CV609	42	CV731	6F6	CV829	4TPB
CV543	I2SK7	CV610	45	CV747	6AC7	CV830	4TSP
CV544	I2SK7	CV611	56	CV750	01A	CV833	89
CV545	ACSP3	CV612	57	CV753	1A3	CV837	12C8
CV546	I2SQ7	CV613	58	CV754	1A4P	CV841	5U4
CV547	I2SQ7	CV614	75	CV755	1A5	CV842	5W4
CV548	LP2	CV615	76	CV756	1A5	CV843	6AB5
CV549	25A6	CV616	77	CV757	1A6	CV844	6AC5
CV550	25A6	CV617	80	CV758	1B4P	CV845	6AC5
CV551	25L6	CV618	83	CV759	1B5	CV846	6AC7
CV552	25L6	CV619	84	CV760	1B7	CV847	6AF5
CV553	25L6	CV624	804	CV764	1D5	CV848	6AG5
CV554	D63	CV629	814	CV765	1D7	CV849	6AC7
CV555	25Z5	CV631	828	CV766	1E5GP	CV850	6AK5
CV556	QP25	CV636	836	CV767	1F4	CV851	6B4
CV557	D42	CV637	837	CV768	1F5G	CV852	6C4
CV558	25Z6	CV642	872A	CV769	1F6	CV854	6C7
CV559	25Z6	CV649	956	CV770	1F7	CV856	6G8
CV560	TSP4	CV650	958	CV771	1G5	CV858	6J6
CV561	35L6	CV652	1603	CV772	1G6	CV859	6J8
CV562	35L6	CV653	1611	CV773	1G6	CV860	6K5
CV563	DA30	CV654	1612	CV774	1H4	CV861	6K5
CV564	35Z3	CV655	1613	CV775	1LA6	CV862	6L5
CV565	35Z3	CV656	1616	CV776	1LB4	CV864	6P7
CV567	35Z5	CV657	1620	CV777	1LC5	CV865	6SD7
CV568	35Z5	CV658	1622	CV778	1LC6	CV866	6SJ7Y
CV569	ECC35	CV659	1625	CV779	1LD5	CV867	6SR7
CV570	3Q/195E	CV660	6AC7	CV780	1LH4	CV870	6V7
CV571	50L6	CV661	6AB7	CV781	1LN5	CV871	6Z5
CV572	6X5	CV664	9002	CV782	1R5	CV872	6Z7
CV573	6X5	CV665	9003	CV783	1S4	CV873	6ZY5
CV574	EZ35	CV666	9004	CV784	1S5	CV875	1642
CV575	5U4	CV667	9005	CV785	1T4	CV876	7A6
CV578	6A8	CV668	35T	CV786	1T5	CV877	7A7
CV579	6A8	CV684	274B	CV787	2A7	CV878	7A8
CV580	6A8	CV687	446B	CV792	2C22	CV879	7B4
CV581	6C5	CV688	2C43	CV794	2D2	CV880	7B5
CV582	6C5	CV692	0Z4	CV795	2D4A	CV881	7B5
CV583	6C5	CV694	12SG7	CV796	2D13C	CV882	7B6
CV585	6C6	CV697	12SJ7	CV797	2D21	CV883	7B8
CV586	EL37	CV698	12SJ7	CV802	2C26	CV885	7C5
CV587	6Q7	CV700	12SR7	CV803	2V3	CV886	7C5
CV588	6Q7	CV703	12K8	CV804	2V3	CV887	7C6
CV589	6Q7	CV705	1D5GP	CV805	50Y6	CV888	7D7
CV590	6SJ7	CV706	6U7	CV807	3A4	CV889	7D8
CV591	6SJ7	CV709	72	CV808	3A5	CV890	7E5
CV592	6SJ7	CV711	32	CV811	1291	CV891	7E6
CV593	GZ32	CV712	38	CV812	3B24	CV892	7E7
CV594	6SH7	CV716	8013A	CV815	3D6	CV893	7F7
CV595	6SH7	CV717	5RAGY	CV818	3Q4	CV894	7G7
CV597	2X2A	CV723	1619	CV819	3Q5	CV895	7H7
CV599	1851	CV724	816	CV820	3S4	CV896	7K7
CV603	10	CV726	35Z3	CV824	4THA	CV897	7J7
CV604	30	CV728	1P5GT	CV825	4SHA	CV898	7N7
CV606	37	CV729	5V4	CV826	4THA	CV899	7Q7

Service No.	Civilian No.	Service No.	Civilian No.	Service No.	Civilian No.	Service No.	Civilian No.
CV900	7R7	CV1041	PM12M	CV1122	4IMXP	CV1208	PM256
CV901	7Y4	CV1042	210LF	CV1123	EF8	CV1220	4033A
CV902	7W7	CV1043	210PG	CV1124	MS/Pen	CV1237	PM24D
CV908	12A5	CV1044	210DDT	CV1125	MS/PenB	CV1238	PM24D
CV909	12A7	CV1045	X56	CV1126	4SH	CV1246	PM202
CV910	12A8	CV1046	PT25H	CV1127	Pen46	CV1262	GUI
CV911	12B8	CV1049	210SPT	CV1129	MS/Pen	CV1263	RG1—125
CV916	12H6	CV1050	HL2	CV1130	HL23	CV1264	UI8
CV917	12J7	CV1051	Pen220A	CV1133	V960	CV1265	UI5
CV918	12K7	CV1052	EL32	CV1134	HVR2	CV1266	UI5
CV919	12SF5	CV1053	EF39	CV1135	EI148	CV1267	U4020
CV920	12SF5	CV1054	EB34	CV1136	EF54	CV1268	5Y3
CV921	12SF7	CV1055	EBC33	CV1137	EC52	CV1280	6L7
CV922	12SH7	CV1056	EF36	CV1151	PM3	CV1281	KTW61
CV923	12SJ7	CV1057	EK32	CV1152	PM4DX	CV1282	MSP4
CV924	12SL7	CV1059	955	CV1153	PM254	CV1283	SP4
CV925	12SN7	CV1060	807	CV1154	PM4DX	CV1284	MS/Pen
CV927	12Z3	CV1061	DET19	CV1156	DEQ	CV1285	6N7
CV929	12SPA	CV1064	UI2/I4	CV1158	PM14	CV1286	6L6
CV930	14F7	CV1065	SP61	CV1159	PM14	CV1288	244V
CV931	15	CV1066	P61	CV1160	104V	CV1289	1561
CV932	2C40	CV1067	6J5	CV1161	104V	CV1290	SU2150A
CV934	15R	CV1071	U52	CV1163	PD220A	CV1291	HVR2
CV936	24A	CV1072	GU50	CV1164	ACSG	CV1296	MUI4
CV937	25A7	CV1073	H63	CV1165	VMS4	CV1300	10DI
CV938	25AC5	CV1074	6J7	CV1166	P220	CV1301	6H6
CV939	25B6	CV1075	KT66	CV1167	PM24A	CV1302	D42
CV940	25B8	CV1077	EM31	CV1168	PX4	CV1303	PM1HF
CV942	25Y5	CV1078	DI	CV1169	VMP4G	CV1304	LP2
CV943	26	CV1079	KT8	CV1170	D41	CV1305	4DI
CV944	27	CV1080	4307A	CV1171	AT4	CV1306	HL23DD
CV945	28D7	CV1081	4052A	CV1172	VMP4G	CV1307	PM1LF
CV946	28D7	CV1082	220TH	CV1173	354V	CV1308	TDD2A
CV947	31	CV1083	210VPT	CV1174	KT42	CV1309	4019B
CV948	32L7	CV1088	832	CV1175	AP4	CV1310	KCI
CV949	33	CV1091	EF50	CV1176	AP4	CV1311	B406
CV995	6AJ5	CV1092	EA50	CV1177	4DI	CV1312	220RC
CV996	EL32	CV1095	954	CV1178	DA30	CV1313	220LF
CV1000	4DI	CV1099	X66	CV1179	ML4	CV1316	4021B
CV1001	SU2150A	CV1100	KTW62	CV1180	244V	CV1318	VS24
CV1002	EI192	CV1101	MHLD6	CV1181	KT41	CV1319	PM12V
CV1018	215SG	CV1102	BL63	CV1182	H42	CV1320	SP2
CV1019	PM2	CV1103	Y63	CV1183	W42	CV1321	9D2
CV1020	220P	CV1104	PT15	CV1186	6F6	CV1322	SP2100
CV1021	210LP	CV1105	ML6	CV1187	D41	CV1323	VP2
CV1022	220PA	CV1106	9D2	CV1188	N43	CV1324	SP4
CV1023	230XP	CV1107	15D2	CV1189	AC6Pen	CV1325	42MPT
CV1027	210LF	CV1108	8D2	CV1190	ACP4	CV1326	AC4Pen
CV1028	220VSG	CV1109	4DI	CV1191	KTZ41	CV1327	Pen1340
CV1032	220B	CV1111	VI907	CV1192	Z62	CV1328	7D8
CV1035	QP21	CV1113	UI7	CV1193	X65	CV1329	PenA4
CV1036	220PA	CV1116	V872	CV1194	20A1	CV1330	TSP4
CV1037	MH4	CV1117	41MTL	CV1195	KTW63	CV1331	VP23
CV1038	MHL4	CV1118	KT2	CV1196	AC5PenDD	CV1332	VP21
CV1039	1561	CV1119	DDL4	CV1197	EC53	CV1333	2201PT
CV1040	PX25	CV1120	SU2150A	CV1198	ACP4	CV1334	KT24

Service No.	Civilian No.	Service No.	Civilian No.	Service No.	Civilian No.	Service No.	Civilian No.
CVI335	SP4I	CVI459	MU2	CVI770	7A4	CVI870	6A7
CVI336	SP42	CVI460	X4I	CVI771	39	CVI873	6AB7
CVI337	I16/Pen	CVI461	U22	CVI772	47	CVI876	I852
CVI338	220VPT	CVI463	CBL3I	CVI773	82	CVI878	6AD7
CVI340	KT44	CVI464	EF39	CVI774	I12A	CVI882	6AG7
CVI341	MSP4	CVI468	SP4	CVI775	36	CVI884	33A/I58M
CVI342	QP25	CVI469	Z22	CVI776	6D7	CVI885	6B5
CVI343	KTZ73	CVI501	EI192	CVI777	7C7	CVI886	EC80
CVI344	TP22	CVI502	KT32	CVI784	6AK7	CVI887	6B6
CVI345	TP25	CVI503	KT33C	CVI790	7Z4	CVI891	6B7
CVI347	ECH35	CVI504	VI90I	CVI794	959	CVI893	6B8
CVI356	U22	CVI505	MH4I	CVI796	DW4	CVI894	6B8
CVI359	ME4I	CVI508	VI913	CVI797	408IA	CVI896	6C8
CVI366	V248A	CVI510	EI242	CVI800	IA7	CVI899	6LI8
CVI367	V245	CVI569	R3	CVI802	IA7	CVI900	6D6
CVI368	V266	CVI570	EK 32	CVI803	IC5	CVI901	6FI1
CVI369	406IA	CVI574	SP4I	CVI805	IC5	CVI902	6D8
CVI370	PVI-35	CVI576	KT38	CVI806	ID5	CVI906	6E5
CVI401	CL33	CVI577	EI143	CVI811	ID8	CVI908	6F5
CVI402	CY3I	CVI578	EF50	CVI812	IE7	CVI909	6F5
CVI403	DD4I	CVI579	954	CVI815	6Q5	CVI910	6F5
CVI404	EF36	CVI581	ECH35	CVI816	6Y3	CVI911	6F6
CVI406	HL4I	CVI622	4052A	CVI817	IG4	CVI912	6F6
CVI407	Pen45	CVI640	4002D	CVI818	IH5	CVI915	6F7
CVI408	P4I	CVI642	DER	CVI819	6P5	CVI917	6F8
CVI409	SP2	CVI653	KCI	CVI820	IH5	CVI918	6F8
CVI410	TH2	CVI655	4019B	CVI821	IN5	CVI919	6F4
CVI411	TH4I	CVI657	4020B	CVI823	IN5	CVI920	6LD20
CVI412	TV4	CVI659	4022B	CVI824	IQ5	CVI921	U24
CVI413	UU6	CVI663	4021B	CVI825	KT45	CVI926	6G6
CVI414	VP4I	CVI664	B406	CVI826	IQ5	CVI927	B142
CVI415	401IA	CVI671	402IA	CVI829	IT5	CVI928	I2BA6
CVI418	I0DI	CVI672	PEN36C	CVI831	2A3	CVI929	6H6
CVI419	I1D3	CVI673	PM2HL	CVI834	2A5	CVI930	6H6
CVI423	9D2	CVI691	DDL4	CVI835	3B28	CVI931	6H6
CVI424	20A1	CVI695	DH30	CVI836	4B26	CVI932	6J5
CVI425	7D5	CVI696	B2I	CVI837	2B7	CVI933	6J5
CVI426	EK2	CVI697	X4I	CVI838	QQZ04-I5	CVI934	6J5
CVI427	EF9	CVI700	SP4I	CVI839	6FI3	CVI935	6J7
CVI428	EBC3	CVI701	XL0	CVI846	5T4	CVI936	6J7
CVI429	EL2	CVI702	XP	CVI847	I9H4	CVI937	6J7
CVI430	ACSP3	CVI715	EBC3	CVI849	5W4	CVI938	6K6
CVI433	EC3I	CVI718	ACTP	CVI850	6LI9	CVI940	6K6
CVI434	EM4	CVI727	Z22	CVI851	5X4	CVI941	6K7
CVI436	HL2	CVI732	ML4	CVI852	5X4X	CVI942	6K7
CVI437	EI143	CVI751	34	CVI853	6P25	CVI943	6K7
CVI438	KT6I	CVI752	35	CVI854	5Y3	CVI944	6K8
CVI443	RI	CVI753	35A5	CVI855	UU9	CVI945	6K8
CVI444	42SPT	CVI755	I626	CVI856	5Y3	CVI946	6K8
CVI445	4012A	CVI756	I629	CVI857	5Y4	CVI947	6L6
CVI447	4030C	CVI757	900I	CVI861	5Z3	CVI948	6L6
CVI448	4043C	CVI758	IL4	CVI862	6AQ5	CVI950	6L7
CVI454	225DU	CVI759	2C26A	CVI863	5Z4	CVI951	6L7
CVI456	Pen383	CVI762	6AK6	CVI864	5Z4	CVI953	6N6
CVI457	VPI33	CVI763	6J4	CVI865	EC8I	CVI954	6N6
CVI458	4IMP	CVI769	2A6	CVI867	6A6	CVI956	6N7

Service No.	Civilian No.	Service No.	Civilian No.	Service No.	Civilian No.	Service No.	Civilian No.
CV1957	6N7	CV2210	5544	CV2542	72	CV2735	4015A
CV1958	6N7	CV2212	13D3	CV2543	73	CV2743	4033AF
CV1959	50C5	CV2214	3B/240M	CV2544	78	CV2747	6U5G
CV1960	6R6	CV2220	5B/257M	CV2545	79	CV2748	5Z4GT
CV1961	12AU6	CV2231	E2266	CV2546	81	CV2769	9006
CV1962	6R7	CV2235	EY84	CV2547	83V	CV2795	1L4
CV1963	6R7	CV2237	1AD4	CV2548	84	CV2796	6L6WGB
CV1964	6R7	CV2238	5672	CV2549	85	CV2797	5894A
CV1966	6SA7	CV2239	5676	CV2556	117L7	CV2798	QQV03-10
CV1967	6SA7	CV2240	3B4	CV2557	117N7	CV2799	QQV03-20
CV1969	6SC7	CV2241	DY70	CV2558	117Z6	CV2800	A40
CV1970	6SC7	CV2245	33/160E	CV2562	164V	CV2806	AC/2HL
CV1971	1T4	CV2254	5678	CV2569	210DET	CV2807	AC2HL
CV1972	6SF5	CV2259	DL68	CV2570	210HF	CV2808	AC2Pen
CV1973	6SF5	CV2260	DF64	CV2571	210HL	CV2809	AC5Pen
CV1974	6S7	CV2275	DC70	CV2574	210VPA	CV2811	AC/HL
CV1975	6S7	CV2277	E2221	CV2575	5670	CV2812	AC/HL
CV1977	UL41	CV2288	DL66	CV2578	5687	CV2813	AC/HLDD
CV1978	6SG7	CV2289	U37	CV2581	220OT	CV2814	5D21
CV1979	61BT	CV2300	3A4	CV2582	220VS	CV2815	ACP
CV1980	185BT	CV2500	35Z4	CV2585	39	CV2817	6L6GA
CV1981	6SK7	CV2501	40	CV2586	240B	CV2819	AC/S
CV1982	6SK7	CV2502	41FP	CV2594	258B	CV2820	AC/SPI
CV1985	6SL7	CV2503	41MH	CV2600	267B	CV2821	ECC33
CV1988	6SN7	CV2504	41MHL	CV2603	274A	CV2822	AC/SG
CV1989	SD6	CV2505	41MPG	CV2616	314A	CV2823	AC/SP3
CV1990	6SQ7	CV2506	41MPT	CV2630	351A	CV2824	AC/SPen
CV1991	6SQ7	CV2507	1U4	CV2640	405BU	CV2829	293A
CV1993	6SS7	CV2508	41STH	CV2643	2C40	CV2830	AC/THI
CV1995	6S7	CV2509	41FP	CV2644	460BU	CV2831	2C51
CV1996	6ST7	CV2510	1Z2	CV2645	RI	CV2832	AC/VP2
CV1999	IV	CV2511	420T	CV2659	3D21A	CV2833	AF3
CV2000	EF91	CV2512	420TDD	CV2662	5639	CV2835	5R4WGY
CV2001	EF91	CV2514	43	CV2678	5799	CV2836	APP4G
CV2002	7D9	CV2516	2C39a	CV2679	866Jr	CV2837	APP4G
CV2003	7D9	CV2517	2E30	CV2690	904V	CV2842	6C4W
CV2004	6AL5	CV2518	4B32	CV2698	5896	CV2843	6J6W
CV2005	6AL5	CV2519	4X150A	CV2699	6088	CV2844	6X4W
CV2007	12AU7	CV2520	5C22	CV2700	957	CV2847	5704
CV2011	12AU7	CV2521	6AH6	CV2701	958A	CV2854	6AN5
CV2101	DF72	CV2522	6AS6	CV2704	7E5	CV2855	6K4
CV2102	DL75	CV2523	6AS7G	CV2705	1203	CV2858	3B24W
CV2103	DF73	CV2524	6AU6	CV2706	7C4	CV2860	AZ1
CV2104	DAF70	CV2525	6AV6	CV2707	1231	CV2861	AZ2
CV2105	DF70	CV2527	6BA7	CV2709	1R4	CV2862	AZ31
CV2106	DL66	CV2529	451U	CV2710	3D6	CV2864	B21
CV2107	DF66	CV2530	45Z5	CV2712	1609	CV2865	B30
CV2115	E2004	CV2531	46	CV2713	1610	CV2866	2C51W
CV2127	7D10	CV2532	49	CV2714	1614	CV2874	1005
CV2128	ECH81	CV2533	50	CV2715	1630	CV2875	CL4
CV2129	5763	CV2534	50L6	CV2716	6SC7	CV2876	2D21W
CV2130	TT16	CV2535	53	CV2717	1729	CV2877	6AK5W
CV2135	8D5	CV2536	53A	CV2718	1876	CV2882	6AL5W
CV2136	6BW6	CV2537	55	CV2721	EL81	CV2883	6AQ5W
CV2179	E2134	CV2538	59	CV2726	EL83	CV2887	DAC1
CV2195	EF91	CV2541	71A	CV2729	EF80	CV2888	EL31

Service No.	Civilian No.	Service No.	Civilian No.	Service No.	Civilian No.	Service No.	Civilian No.
CV2889	DD620	CV3519	KT30	CV3648	PM24E	CV3820	X24
CV2890	DDT	CV3520	KT3I	CV3649	PM22	CV3821	X3I
CV2891	DE5	CV3523	6I46	CV3650	I2AY7	CV3822	X3I
CV2892	DE5B	CV3526	EL85	CV3651	I2SH7gt	CV3823	X4I
CV2907	DFI	CV3527	KTW73	CV3656	PT425	CV3825	X63
CV2909	DH73	CV3529	KTZ4I	CV3658	PVI-35	CV3826	X65
CV2910	DKI	CV3530	KTZ73	CV3666	I2SW7	CV3831	XL2
CV2911	DL2	CV3531	L2	CV3668	I2SY7	CV3832	XP2
CV2912	DL63	CV3532	L2I	CV3691	S23	CV3833	XSG2.OV
CV2920	EI I48	CV3533	L22DD	CV3692	S23	CV3834	XW2
CV2925	EBF2	CV3534	L30	CV3695	S2I 5	CV3836	Z2I
CV2926	EBL3I	CV3538	L6I0	CV3696	S2I5A	CV3837	Z2I
CV2929	ECH3	CV3546	MHD4	CV3697	I2SX7gt	CV3838	Z62
CV2930	ECH33	CV3552	MPT4	CV3698	S6I0	CV3839	Z66
CV2931	2B22	CV3553	MS4B	CV3699	S693	CV3881	EB4I
CV2937	6AQ5	CV3554	MPT42	CV3702	SG2I 5	CV3882	EBC4I
CV2938	EL33	CV3561	MS/Pen	CV3703	SP4B	CV3883	EAF42
CV2939	6F4	CV3562	MSP4I	CV3704	SPI3C	CV3884	ECC40
CV2940	EL36	CV3565	ME4I	CV3705	S69I	CV3885	EF40
CV2941	EL50	CV3567	MUI	CV3707	6AL7gt	CV3886	EF4I
CV2954	FC2A	CV3570	MU4250	CV37I I	N78	CV3887	EF42
CV2955	FC4	CV357I	MVSPen	CV372I	T4D	CV3888	ECH42
CV2956	FCI3C	CV3572	MVSPenB	CV3723	T4I	CV3889	EL4I
CV2959	3B2I	CV3573	MZ05-20	CV3726	TDD2A	CV3890	EL42
CV2967	8020	CV3575	3B26	CV3727	TDD4	CV389I	EZ40
CV2968	7F8	CV3576	MX40	CV3735	TP26	CV3892	AZ4I
CV2970	5656	CV3577	25A7gt	CV3743	U5	CV400I	6X4
CV2971	5675	CV3578	PM22D	CV3744	U6	CV4002	EF9I
CV2972	5876	CV3582	VP4B	CV3747	UI 5	CV4003	I2AU7
CV2975	EL84	CV3587	705A	CV3750	U22	CV4005	6X4
CV2977	H2	CV3593	7I3A	CV375I	U2I	CV4006	8D5
CV2978	H12	CV3594	7I7A	CV3752	U30	CV4007	6AL5W
CV2979	H30	CV360I	7I93	CV3753	U3I	CV4008	57I9
CV2980	DM70	CV3612	5686	CV3756	U600	CV4009	6BA6W
CV2981	H4I0	CV3613	6AR6	CV3758	UR3C	CV40I0	6AK5W
CV2982	H6I0	CV3616	6BN6	CV3759	R2	CV40I I	6AS6W
CV2983	DL94	CV3618	6L6wga	CV376I	UU7	CV40I2	6BE6W
CV2984	6080	CV3619	6SJ7wgt	CV3787	VP2	CV40I3	5670
CV2985	HD24	CV3620	P220	CV3788	VP4	CV40I4	EF9I
CV2990	6I36	CV362I	P4I0	CV3790	VPI3C	CV40I5	9D6
CV299I	HL2	CV3622	P6I0	CV3792	VP23	CV40I6	58I4
CV2992	6I06	CV3623	PA40	CV3793	VP24	CV40I7	575I
CV2994	HL23	CV3626	PenB4	CV3794	VP2I0	CV40I8	2D2IW
CV2995	HL23DD	CV3627	6SN7wgt	CV3795	VP2I5	CV40I9	6AQ5W
CV2996	HL4IDD	CV3630	Pen44	CV3796	VPI322	CV402I	3B24WA
CV2998	HLI33	CV363I	Pen45DD	CV3800	VS2	CV4022	6I35
CV2999	HLI33DD	CV3633	Pen23I	CV3802	VS24	CV4023	6AU6WA
CV3500	HL2I0	CV3634	Pen428	CV3803	VS24	CV4024	I2AT7WA
CV350I	HL6I0	CV3635	PenI340	CV3804	W2I	CV4025	6AL5
CV3502	HLI320	CV3636	PenI346	CV3805	W30	CV4026	6R4wga
CV3503	HLDDI320	CV3638	PenA4	CV3806	W3I	CV4027	5Y3wgt
CV2505	HYI I4B	CV364I	PMIHL	CV38I0	WD30	CV4029	5902
CV3506	HY6I5	CV3642	PMILF	CV38I6	X2I	CV403I	6J6wa
CV3508	6208	CV3643	PM2A	CV38I7	X2I	CV4032	58I4a
CV35I5	KB2	CV3645	PM2DX	CV38I8	X22	NR I5	PM3
CV35I6	KK2	CV3647	PM22A	CV38I9	X24	NR I5A	PM4DX

Service No.	Civilian No.	Service No.	Civilian No.	Service No.	Civilian No.	Service No.	Civilian No.
NR16	PM254	NR83	6J7	VR95A	954	VT501A	E1192
NR16A	PM4DX	NR84	20A1	VR99	X66	VU39	MUI2/14
NR22	PM14	NR85	6F6	VR99A	ECH35	VU64	U12/14
NR23	PM14	NR86	KTW63	VR100	KTW62	VU71	U52
NR26	MHL4	NR87	AC5PenDD	VR101	MHLD6	VU71A	U52
NR27	I04V	NR94	ACP4	VR102	BL63	VUI11	V1907
NR27A	I04V	NT20	PM256	VR106	9D2	VUI13	U17
NR28	PM2	NT37	4033A	VR107	15D2	VUI20	SU2150A
NR31	MH4	NT62	PM24D	VR108	8D2	VUI20A	SU2150A
NR35	PD220A	NT62A	PM24D	VR109	4D1	VUI33	V960
NR37	ACSG	NT82	PM202	VR109A	4D1	VUI34	HVR2
NR38	VMS4	NU3	U12/14	VR116	V872	VU504	V1901
NR39	PM22A	NU12	U18	VR117	41MTL	VU508	V1913
NR40	PM24D	NU13	U15	VR117A	41MTL	VW36	220PA
NR41	210VPT	NU13A	U15	VR118	KT2	VW42	210LF
NR42	P220	NU15	U4020	VR119	DDL4	VW48	215SG
NR43	PM24A	NU17	UU5	VR122	41MXP		
NR44	PX4	NU18	U17	VR123	EF8	American Army	Civilian No.
NR45	VMP4G	NU20	U50	VR124	MS/Pen	VT1	203A
NR46	D41	NU33	SU2150A	VR125	MS/PenB	VT2	205B
NR47	PX25	NU33A	HVR2	VR126	4SH	VT4B/C	211
NR48	EBC33	VI 77	EM31	VR129	MS/Pen	VT5	215A
NR49	EF36	VI 103	Y63	VR130	HL23	VT6	212A
NR50	AT4	VR18	215SG	VR135	E1148	VT7	WX12
NR51	VMP4G	VR19	PM2	VR136	EF54	VT24	864
NR52	354V	VR21	210LF	VR137	EC52	VT25	10
NR53	KT42	VR22	220PA	VR502	KT32	VT26	22
NR54	AP4	VR27	210LF	VR503	KT33C	VT27	30
NR54A	AP4	VR28	220VSG	VR505	MH41	VT28	24
NR55	4D1	VR32	220B	VT20	220P	VT29	27
NR56	DA30	VR35	QP21	VT23	230XP	VT30	01A
NR57	ML4	VR37	MH4	VT23A	230XP	VT31	31
NR58	244V	VR38	MHL4	VT45	X56	VT33	33
NR59	KT41	VR40	PX25	VT46	PT25H	VT34	207
NR60	H42	VR41	PM12M	VT50	HL2	VT35	35/51
NR61	VW42	VR43	210PG	VT51	Pen220A	VT36	36
NR64	KTW62	VR44	210DDT	VT52	EL32	VT37	37
NR65	MSP4	VR49	210SPT	VT60	807	VT38	38
NR66	D41	VR53	EF39	VT60A	807	VT39	869
NR67	6L7	VR54	EB34	VT61	DET19	VT39A	869A
NR68	6Q7	VR55	EBC33	VT61A	TVO3-10	VT40	40
NR69	Y63	VR56	EF36	VT73	6F5	VT41	851
NR70	MS/Pen	VR57	EK32	VT74	6J7	VT42	872
NR71	MS/PenT	VR57A	EK32	VT75	KT66	VT43	845
NR72	N43	VR59	955	VT75A/B	KT44	VT44	32
NR73	6N7	VR65	SP61	VT79	KT8	VT45	45
NR74	PV1-35	VR65A	SP41	VT80	4307A	VT46	866
NR75	ACP4	VR66	P61	VT81	4052A	VT46A	866A
NR76	KTZ41	VR67	6J5	VT88	832	VT47	47
NR77	6L6	VR78	D1	VT104	PT15	VT48	41
NR78	6C5	VR82	220TH	VT105	ML6	VT49	39/44
NR78A	L63	VR83	210VPT	VT127	Pen46	VT50	50
NR79	Z62	VR91	EF50	VT139	MH4	VT51	841
NR80	E1148	VR91A	EF50	VT180	EF39	VT54	34
NR81	6K7	VR92	EA50	VT195	5Z4G		
NR82	X65	VR95	954	VT501	E1192		



American Army No.	Civilian No.	American Army No.	Civilian No.	American Army No.	Civilian No.	American Army No.	Civilian No.
VT55	865	VT101	837	VT152	6K6	VT200	VR105-30
VT56	56	VT103	6SQ7	VT153	12C8	VT201	25L6
VT57	57	VT104	12SQ7	VT154	814	VT202	9002
VT58	58	VT105	6SC7	VT161	12SA7	VT203	9003
VT60	850	VT106	803	VT162	12SJ7	VT204	HK24G
VT62	801	VT107	6V6	VT163	6C8	VT205	6ST7
VT63	42	VT108	450TH	VT164	1619	VT206A	5V4G
VT64	800	VT109	205I	VT165	1624	VT207	12AH7
VT65	6C5	VT112	6AC7	VT167	6K8	VT208	7B8
VT65A	6C5G	VT114	5T4	VT168A	6Y6	VT209	12SG7
VT66	6F6	VT115	6L6	VT169	12C8	VT210	1S4
VT66A	6F6G	VT117	6SK7	VT170	1E5GP	VT211	6SG7
VT68	6B7	VT118	832	VT171	1R5	VT212	958
VT69	6D6	VT119	2X2	VT172	1S5	VT213A	6L5
VT70	6F7	VT120	954	VT173	1T4	VT214	12H6
VT72	842	VT121	955	VT174	3S5	VT215	6E5
VT73	843	VT122	530	VT175	1613	VT216	816
VT74	5Z4	VT124	1A5	VT176	6AB7	VT217	811
VT75	75	VT125	1C5	VT177	1LH4	VT221	305
VT76	76	VT126	6X5	VT178	1LC5	VT222	884
VT77	77	VT131	12SK7	VT179	1LN5	VT223	1H5
VT78	78	VT132	12K8	VT180	3LF4	VT224	RK34
VT80	80	VT133	12SR7	VT181	7Z4	VT225	307A
VT83	83	VT134	12A6	VT182	3B7	VT229	6SL7
VT84	84/6Z4	VT135	12J5	VT183	1R4	VT231	6SN7
VT85	6K7	VT136	1625	VT184	VR90/30	VT232	E1148
VT86	6K7	VT137	1626	VT185	3D6	VT233	6SR7
VT87	6L7	VT138	1629	VT187	575A	VT239	1LE3
VT88	6R7	VT139	VR150-30	VT188	7E6	VT241	7E5
VT89	89	VT140	1628	VT189	7F7	VT243	7C4
VT90	6H6	VT141	531	VT190	7H7	VT244	5U4
VT91	6J7	VT143	805	VT191	316A	VT247	6AG7
VT92	6Q7	VT144	813	VT192	7A4	VT249	1006
VT93	6B8	VT145	5Z3	VT193	7C7	VT250	EF50
VT94	6J5	VT146	1N5GT	VT194	7J7	VT264	3Q4
VT95	2A3	VT147	1A7	VT195	1005	VT268	12SC7
VT96	6N7	VT148	1D8	VT196	6W5	VT269	717A
VT97	5W4	VT149	3A8	VT197A	5Y3G	VT287	815
VT98	6U5/6G5	VT150	6SA7	VT198A	6G6	VT288	12SH7
VT99	6F8	VT151	6A8	VT199	6SS7	VT289	12SL7
VT100	807						

### CIVILIAN EQUIVALENTS OF SERVICE VALVES

The equivalents given above are purely for convenience only, and it does not necessarily follow that the data for any given valve type will appear in the data pages or even that the valve given can be tested on a Valve Characteristic Meter, or AVO Valve Tester.

### B.V.A. UTILITY EQUIVALENTS

The last figure of this number denotes the manufacturer and can be disregarded.  
e.g. All the 260 series are equivalent to an EL33.

B.V.A. No.	Civilian No.	B.V.A. No.	Civilian No.	B.V.A. No.	Civilian No.	B.V.A. No.	Civilian No.
132	HL23DD	162	Pen25	211	DW4/350	264	EL33
142	VP23	172	TP25	243	EF39	274	ECH35

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
AABI	023 1†0 980		4						D			8SC	DDD
AA6I	274 164 130		6	5.2	250		6	2.7	100		2.7	B8A	P
ABCI	023 198 060	G <sub>1</sub>	4	7	250		4	2	100		2	8SC	DDT
ABLI	023 198 560	G <sub>1</sub>	4	6	250	250	36	9	100	PenLF	9.0	8SC	DDP
ABI	902 310 000	D <sub>1</sub>	4						D			B5	DD
ACD	802 310 000		4						D			B5	D
ACDD	892 310 000		4						D			B5	DD
AC/DDT	809 231 600	G <sub>1</sub>	4	4	200		5	2.3	100		2.3	B7	DDT
AC/DX	642 310 000		4	3	200		5	3.5	100		3.5	B5	T
AC/G	642 310 000		4	7.5	200		8	2.7	100		2.7	B5	T
ACHF	642 310 000		4	3	200		3	2.5	100		2.5	B5	T
ACHL	642 310 000		4	4.5	250		7	3	100		3	B5	T
AC/HLDD	809 231 600	G <sub>1</sub>	4	3	200		4.9	2.6	100		2.6	B7	DDT
ACHLDD	9†0 231 680	G <sub>1</sub>	4	3	200		4.9	2.6	100		2.7	B9	DDDT
ACHL4	642 310 000		4	5	250		5	3.3	100		3.3	B5	T
ACHL4DD	809 231 600	G <sub>1</sub>	4	3	250		7	2.5	100		2.5	B7	DDT
ACHM4	542 310 000	A	4		250	100	10	2.5	100	100	2.5	B5	P
AC/HP	041 231 500	A	4	2	200	100	4.2	3.2	100	100	3.2	B7	P
AC/HP	543 210 000	A	4	2	200	100	4.2	3.2	100	100	3.2	B5	P
ACHVP	542 310 000	A	4	2	200	100	3	2.3	100	100	2.3	B5	P
ACHI	174 652 300	G <sub>1</sub>	4	2	150 75	75	5 2.5	2.0	100 80		2 75	C7	TH
ACH4	642 310 000		4	4	200		3	3.3	100		3.3	B5	T
AC/L	642 310 000		4	13.5	250		17	4.25	100		4.25	B5	T
AC/LP	642 310 000		4	14	200		18	4.25	100		4.25	B5	T
ACL4	642 310 000		4	15	250		9	4	100		4	B5	T
ACME4	642 310 000	S	4	16	250	250	26		100	PenLF		B5	P
ACP	642 300 000		4	21	200		19	3	100		3	B4	T
AC/P	642 310 000		4	13.5	200		17	2.75	100		2.75	B5	T
ACPN	642 350 000		4	12	250	200	22		100	PenLF		B5	P
ACPNDH	642 350 000		4	10	250	200	18		100	PenLF		B5	P
AC/PP	642 300 000		4	25	400		50	5	100		5	B4	T
ACPP	045 231 600		4	5.5	250	250	32		No Data Available			B7	P
AC/Pen.	045 231 600		4	15.5	250	250	32	2.7	100	PenLF	2.5	B7	P
AC/Pen.	642 310 000	S	4	12	200	200	24	2.5	100	PenLF	2.5	B5	P
ACPT	642 310 000	S	4	8	250	200	31		100	PenLF		B5	P
ACPX4	642 310 000		4	18	250		30	4	100		4	B5	T
ACPX4a	642 300 000		4	25	250		50	5	100		5	B4	T
ACPI	642 310 000		4	28	200		24	2.3	100		2.3	B5	T
ACP4	042 310 000	A	4	1	100			7	100		7	B5	T
ACP4	642 310 000		4	20	250		20	4	100		4	B5	T
ACQ	045 231 600		4	22	400	250	57	6	100	PenLF	6	B7	P
ACQA	045 231 600		6	23	400	250		6	100	PenLF	6	B7	P
AC/SG	542 310 000	A	4	1.5	200	60	4.5	1.9	200	60	1.9	B5	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
AC/SGVM	542 310 000	A	4	2	200	60	5.8	1.8	200	60	2	B5	P
AC/SH	542 310 000	A	4	1.5	200	75	7.4	3.5	200	75	3.5	B5	P
AC/SL	041 230 500	A	4	1	200	75	3.8	3.3	200	75	3.3	B7	P
AC/SL	061 230 500	G <sub>1</sub>	4	1	200	75	3.8	3.3	200	75	3.3	B7	P
AC/S2	542 310 000	A	4	1.5	200	75	7	4.3	200	60	3.4	B5	P
ACSPI	041 231 500	A	4	3	200	200	4.9	2.7	100	PenLF	2.7	B7	P
ACSP3	061 231 500	G <sub>1</sub>	4	1.7	250	100	7.9	7	200	100	7.5	B7	P
AC/SIVM	542 310 000	A	4	1.5	200	75	5.6	1.1	200	75	1.1	B5	P
ACS2Pen	041 231 500	A	4	1.5	250	100	8	4.6	200	100	5.5	B7	P
ACTHI	645 231 700	G <sub>1</sub>	4	2.7 3	75 250		6.0 3	3.0 3.5	80 100		3 3.5		
						100				100		B7	TH
ACTHIA	217 640 530	G <sub>1</sub>	4	3 3	75 250		6.0 3	3.0 3.5	80 100		3 3.5	MO8	TH
ACTP	571 231 640	G <sub>1</sub>	4	3 5	150 250	0 200	1.5 5.5	1.4 1.6	100 200	0 PenLF	1.4 1.6		
												B9	TP
ACVG	542 310 000	A	4	0	200	75	5	3	200	75	3	B5	P
ACVH	542 310 000	A	4	1.5	200	75	9.3	3.3	200	75	3.3	B5	P
AC/VP	041 231 500	A	4	1.5	200	100	5.7	3	200	100	3	B7	P
AC/VP	542 310 000	A	4	1.5	200	100	5.7	3	200	100	3	B5	P
ACVPB	061 231 500	G <sub>1</sub>	4	1.5	250	250	12	4	250	200	4	B7	P
AC/VP1	041 231 500	A	4	2.8	250	200	7.4	2	100	PenLF	2	B7	P
AC/VP2	061 231 500	G <sub>1</sub>	4	2.8	250	200	7.4	2	100	PenLF	2	B7	P
AC/VP4	041 231 500	A	4		250	100	6	3	100	100	3	B7	P
ACVS	542 310 000	A	4	1.5	200	75	4.4	3	200	75	3	B5	P
ACVS4	542 310 000	A	4	2	250	50	6	2	200	60	2	B5	P
AC/Y	045 231 600		4	10	250	250	32	3.5	100	PenLF	3.5	B7	P
AC/Y	642 310 000	S	4	10	250	250	32	3.5	100	PenLF	3.5	B5	P
AC/YC	045 231 600		4	10	250	250	68	7.5	100	PenLF	7.5	B7	P
AC/YY	045 231 600		4	10	250	250	68		100	PenLF		B7	P
AC/Z	642 310 000	S	4	5.5	250	250	32	8	100	PenLF	8	B5	P
AC/Z	045 231 600		4	5.5	250	250	32	8	100	PenLF	8	B7	P
AC/ZDD	869 231 500	G <sub>1</sub>	4	5.5	250	250	32	8	100	PenLF	8	B7	DDP
AC2	023 100 060	G <sub>1</sub>	4	5.5	250		6	2.5	100		2.5	8SC	T
AC2DD	869 231 500	G <sub>1</sub>	4	5.5	250	250	32		100	PenLF		B7	DDP
AC2/HL	642 310 000		4	1.75	200		4.9	5	100		5	B5	T
AC2/Pen	045 231 600		4	5.3	250	250	32	8.5	100	PenLF	8	B7	P
AC2/PenDD	869 231 500	G <sub>1</sub>	4	5.3	250	250	32	8.5	100	PenLF	8	B7	DDP
AC3Pen	045 231 600		4	3	250	250	36	9	100	PenLF	9	B7	P
AC4/Pen	045 231 600		4	8.5	225	225	52	11	100	PenLF	10	B7	P
AC5/Pen	045 231 600		4	8.5	250	250	40	9.4	100	PenLF	9.4	B7	P
AC5/PenDD	869 231 500	G <sub>1</sub>	4	8.5	250	250	40	9.4	100	PenLF	9.4	B7	DDP
AC6/Pen	045 231 000	A	4	6.9	300	225	63	9.5	100	100	8.5	B7	P
AC/042	642 300 000		2	38	300		50	5	100		5	B4	T
AC/044	642 300 000		4	38	300		50	5	100		5	B4	T
AC/064	642 300 000		4	21	200		20	3	100		3	B4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
AC084	642 300 000		4	22	300		17	1.1	100		1.1	B4	T
AC084N	642 300 000		4	0	100			2.5	100		2.5	B4	T
AC104	642 310 000		4	10	150		8.5	3.5	100		3.5	B5	T
AD	281 300 000		6				60		REC		20mA	B4	R
ADI	023 004 060		4	45	250		60	6	100		6	8SC	T
ADI/350	023 004 060		4	66	350		84		100			8SC	T
ADG	642 310 000		20	10	200		10	3.5	100		3.5	B5	T
ADHF	642 310 000		20	3	200		5	3.5	100		3.5	B5	T
ADHP	041 231 500	A	20		200	100	5	2.8	200	100	2.8	B7	P
ADL	642 310 000		20	13	200		20	3	100		3	B5	T
ADPN	642 350 000		20	15	250	200	22		100	PenLF		B5	P
ADVHP	041 231 500	A	20		200	100	5.5	2.5	200	100	2.5	B7	P
AE	265 413 000		13	13.5	100	100	8.5	1.65	100	90	1.65	UX6	P
AF	281 300 000		2.5				120		REC		30mA	UX4	R
AF2	542 310 000	A	4	2	225	100	4.25	2.5	200	100	3.2	B5	P
AF3	023 110 560	G <sub>1</sub>	4	3	250	100	8	1.8	250	100	1.8	8SC	P
AF7	023 110 560	G <sub>1</sub>	4	2	250	100	3	2.1	250	100	2.1	8SC	P
AG	289 300 000		5				120		REC		30mA	UX4	RR
AG8	026 546 310		6	2	200	50	3.5		No Data Available			A08	O
AG495	642 310 000		4	4	200		4	2.5	100		2.5	B5	T
AG4100	642 300 000		4	3	150		5	2	125		2	B4	P
AH1	023 145 560	G <sub>1</sub>	4	2	250	75	3	1.8	200	75	1.8	8SC	P
AH100	023 145 560	G <sub>1</sub>	4	2.5	200	100	5.5	1.5	100	100	1.5	8SC	P
AH4105	542 310 000	A	4	2	200	125	4.5	2.3	100	100	2.3	B5	
AK2	123 164 570	G <sub>1</sub>	4	2	100	75	4.2	0.9	80	75	0.9	8SC	O
				2	250	75	4.3	2.2	100	75	2.0		
AL1	023 004 560		4	15	250	250	36	2.8	100	PenLF	2.8	8SC	P
AL2	023 100 560	G <sub>1</sub>	4	25	250	250	36	2.6	100	PenLF	2.6	8SC	P
AL3	245 231 600		4	3	250	250	36	9	100	PenLF	9	B7	P
AL3	023 104 560		4	6.5	250	250	36	9.5	100	150	8	8SC	P
AL4	145 231 600		4	3	250	250	36	9	100	PenLF	9.5	B7	P
AL4	023 104 560		4	6.5	250	250	36	9.5	100	150	8	8SC	P
AL4/375	145 231 600		4	8	350	250	24		100	PenLF		B7	P
AL4/375	023 104 560		4	8	350	250	24		100	150		8SC	P
AL5	145 231 600		4	14	300	275	72	8.5	100	PenLF	7	B7	P
AL5	023 104 560		4	15	250	250	72	7	100	150	6	8SC	P
AL5/375	023 104 560		4	19.5	350	275	48		100	PenLF		8SC	P
AL60	041 231 500	A	4	7	250	250	72	14.5	100	PenLF	8.5	B7	P
AL495	642 310 000		4	12	250		20	4	100		4	B5	T
APP4A	045 231 600		4	16.5	250	250	36	3.5	100	PenLF	3.5	B7	P
APP4As	023 100 560	G <sub>1</sub>	4	16.5	250	250	36	3.5	100	PenLF	3.5	8SC	P
APP4B	045 231 600		4	5	250	250	32	10	100	PenLF	10	B7	P
APP4Bs	023 104 560		4	5	250	250	32	10	100	PenLF	10	8SC	P
APP4C	145 231 600		4	5	250	250	36	10	100	PenLF	10	B7	P
APP4D	145 231 600		4	16	250	250	72	7	100	PenLF	7	B7	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
APP4E	145 231 600	A <sub>1</sub>	4	13.5	350	275	72	8.5	100	PenLF	8.5	B7	P
APP4E	023 104 560		4	13.5	350	275	72	8.5	100	PenLF	8.5	8SC	P
APP4G	041 231 500		4	6	250	250	36	10	100	PenLF	10	B7	P
APP4G	005 231 600		4	6	250	250	36	10	100	PenLF	10	B7	P
APP495	642 350 000		4	23	300	200	25	2	100	100	2	B5	P
APP4100	642 310 000	S	4	15	250	250	24	2.5	100	150	2.5	B5	P
APP4120	642 310 000	S	4	15	350	200	22	3.5	100	100	3.5	B5	P
APV4	892 300 000		4				60		REC		20mA	B4	RR
APV4100	892 300 000		4				60		Rec		20mA	B4	RR
APV4200	892 300 000		4				60		REC		20mA	B4	RR
AP495	642 310 000		4	1.5	200			2.5	150		5	B5	T
AR495	642 310 000	A	4	1	100			5	100		5	B5	T
AR4100	642 310 000		4	3	200		3	2	150		2	B5	T
AR4101	642 310 000		4	1	100			3	100		3	B5	T
AS494	542 310 000		4		200	100	15	1.5	100	100	1.5	B5	P
AS495	542 310 000		4	2	200	100	1	3.4	200	100	3.4	B5	P
AS4100	542 310 000	A	4	6	200	100	4	1.425	100	90	1.4	B5	P
AS4120	542 310 000	A	4	2	250	100	3	3	150	100	3	B5	P
AS4125	542 310 000	A	4	2	250	100	3	3	200	100	3	B5	P
AX	264 300 000		5	9	150		3	0.8	100		0.8	UX4	T
AX1	892 300 000		4				60		REC		20mA	B4	RR
AX50	892 300 000		4				120		REC		30mA	B4	RR
AZ1	023 080 090		4				30		REC		15mA	8SC	RR
AZ2	023 080 090		4				60		REC		20mA	8SC	RR
AZ3	023 180 090		4				60		REC		20mA	8SC	RR
AZ4	023 080 090		4				120		REC		30mA	8SC	RR
AZ11	902 300 080		4				60		REC		20mA	F8	RR
AZ12	902 300 080		4				60		REC		20mA	F8	RR
AZ21	288 039 920		2				30		Rec		17mA	A08	RR
AZ31	020 809 030		4				30		REC		15mA	A08	RR
AZ32	020 809 030		4				60		REC		20mA	A08	RR
AZ33	028 090 300		4				60		Rec		20mA	A08	RR
AZ41	288 039 920		4				30		REC		10mA	B8A	RR
AZ50	023 080 090		4				120		REC		30mA	8SC	RR
A11A	892 300 000		4				60		REC		20mA	B4	RR
A11B	892 300 000	G <sub>1</sub>	4				60		REC		20mA	B4	RR
A11C	892 300 000		4				60		REC		20mA	B4	RR
A11D	892 300 000		4				60		REC		20mA	B4	RR
A20B	892 310 000		4						D			B5	DD
A23A	809 231 600		4	1	100			2.9	100		2.9	B7	DDT
A26	264 300 000	G <sub>1</sub>	15	1.5	90		4.5	1.16	80	PenLF	1.16	UX4	T
A27D	819 236 500		4	6	250	250	36	9.5	100		9.5	B7	DDP
A28	264 300 000		15	1.5	90		7.5	1.16	80		1.16	UX4	T
A30	264 300 000		15	27	175		22	1.08	100		1.08	UX4	T
A30B	642 310 000		4	2	250		10	5.5	200		5.5	B5	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
A30D	642 310 000		4	3.5	200		6	2.4	100		2.4	B5	T
A32	264 300 000		15	3	150		1.5	0.94	150		0.94	UX4	T
A36A	645 231 700	G <sub>1</sub>	4	{ 2 2	150 200	100	6 3.5	1.2	150 200		1.2	7	TH
A36B	645 231 700	G <sub>1</sub>	4	{ 2 2	100 250	150	22 3.5	6	100 100	75 PenLF	6	B7 B	TH
A36C	645 231 700	G <sub>1</sub>	4	{ 3 2.5	100 250	0 100	9 3.25	3.8	100 100		5.5	B7	TH
A40	264 300 000		15	40.5	175		21	1.5	100		1.5	UX4	T
A40M	254 130 000	A	4	1.5	200	100	3	2	200	100	3	UX5	P
A40M	542 310 000	A	4	1.5	200	100	3	2	200	100	3	B5	P
A48	264 300 000		15	4.5	90		4.5	1.18	80		1.18	UX4	T
A50A	542 310 000	A	4	2	200	100	3	2.3	100	100	2.3	B5	P
A50A	040 231 500	A	4	2	200	100	3	2.3	100	100	2.3	B7	P
A50B	061 231 500	G <sub>1</sub>	4	1.5	250	250	6	3.5	200	200	3.5	B7	P
A50M	041 231 500	A	4	2	200	125	4.5	2.3	100	100	2.3	B7	P
A50M	542 310 000	A	4	2	200	125	4.5	2.3	100	100	2.3	B5	P
A50N	542 310 000	A	4	2	225	100	4.25	2.5	200	100	2.5	B5	P
A50N	041 231 500	A	4	2	225	100	4.25	2.5	200	100	2.5	B7	P
A50P	060 231 500	G <sub>1</sub>	4	3	250	250	11.5	2	100	PenLF	2	B7	P
A70B	642 310 000	S	4	25	250	250	36	2.6	100	PenLF	2.6	B5	P
A70B	045 231 600		4	25	250	250	36	2.6	100	PenLF	2.6	B7	P
A70C	045 231 600		4	3	250	250	36	9	100	PenLF	9	B7	P
A70D	045 231 600		4	3	250	250	36	9	100	PenLF	9	B7	P
A70D	642 350 000		4	5.8	250	250	36	9.5	100	150	8	B5	P
A70E	045 231 600		4	14	250	275	72	8.5	100	PenLF	8.5	B7	P
A70P	045 231 600		4	14.5	250	250	70		100	PenLF		B7	P
A80A	123 174 560	G <sub>1</sub>	4	{ 1.8 8.5	90 250		2 1.6		80 100			8SC	O
A80A	645 231 700	G <sub>1</sub>	4	{ 1.8 8.5	90 250	75 75	2 1.5		80 100	60 75		B7	O
A104	642 300 000		1.1	10	100		5	0.35	100		0.35	B4	T
A203	642 300 000		2	30	150		12	1.5	100		1.5	B4	T
A205	642 300 000		2	18	150		7	1.2	100		1.2	B4	T
A206	642 300 000		2	8.5	150		3.8		100		1	B4	T
A209	642 300 000		2	9	150		4	1.0	100		1.0	B4	T
A210	642 300 000		2	9	125		3	0.9	100		0.9	B4	T
A211	642 300 000		2	2	150		2	1.2	100		1.2	B4	T
A225	642 300 000		2	3	150		1	1.0	100		1.0	B4	T
A235	042 300 000	A	2	0	150		1.5	0.4	150		0.4	B4	T
A241	642 300 000	S	2	2	20	20	1.2	1.0	No Data Available			B4	P
A242	265 300 000	G <sub>1</sub>	2	3	125	75	1.7	0.6	100	75	0.6	UX4	P
A404	642 300 000		4	10	100		4	0.45	100		0.45	B4	T
A406	642 300 000		4	9	150		6	0.45	100		0.45	B4	T
A408	642 300 000		4	4	150		4	1.5	100		1.5	B4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
A409	642 300 000		4	9	150		3.5	0.9	100		1.2	B4	T
A410	642 300 000		4	3	150		3.5	0.5	100		1.2	B4	T
A410	264 300 000		4	3	150		3.5	0.5	100		1.2	UX4	T
A410N	642 300 000		4	3	150		3.5	0.5	100		0.5	B4	T
A411	642 300 000		4	3	200		6	2.5	150		2.5	B4	T
A414K	642 300 000		4	4.5	150		4	2	100		2	B4	T
A415	642 300 000		4	4	150		4	1.5	100		2	B4	T
A416	642 300 000		4	4.5	150		4	2	100		2	B4	T
A420	642 300 000		4	4	150		4	1.5	100		1.5	B4	T
A425	642 300 000		4	2.5	200		0.25	1.2	100		1.2	B4	T
A430	642 300 000		4	3	200		6	2.5	150		2.5	B4	T
A430	042 300 000	A	4	0	150		1.5	0.5	150		0.5	B4	T
A435	642 300 000		4	1	150		2.1	0.5	150		0.5	B4	T
A440N	642 310 000		4	1.6	200		0.2	2.2	150		2.2	B5	T
A442	542 300 000	A	4	1	200	100	4	0.7	200	100	0.8	B4	P
A442	254 300 000	A	4	1	200	100	4	0.7	200	100	0.8	UX4	P
A557	602 310 000	G <sub>1</sub>	4	8	150		28	2	100		2	B5	T
A600	642 300 000		6	9	150		4	1.5	100		1.5	UX4	T
A609	642 300 000		6	9	150		4	1.5	100		1.5	B4	T
A615	642 300 000		6	4.5	150		4	2.4	100		2.4	B4	T
A630	642 300 000		6	1.5	150		0.7	1.5	150		1.5	B4	T
A635	642 300 000		6	1	150		1.2	1.5	150		1.5	B4	T
A642	542 300 000	A	6	1	200	100		0.7	200	100	0.7	B4	P
A802	642 310 000		4	3	100		2.5	2.5	100		2.5	B5	T
A863	026 500 310	G <sub>1</sub>	6	3	250	100	2	1.23	100	100	1.2	A08	P
A1685M	026 510 310	G <sub>1</sub>	6	3	125	100	8	3.2	100	100	3.2	A08	P
A1714	412 30* 600		6	2.5	150		10	8.5	100		8	B7G	T
A1820	265 004 130		6		250	250	40	10.5	100	PenLF	9	B8B	P
A1834	471 461 230		6	40	100		60	6	No Data Available			A08	TT
A2134	412 36* 500		6	7.8	150	150	55	9.5	100	100	9	B7G	P
A4090	642 310 000		4	3.5	250		6	2.4	150		2.4	B5	T
BA2	446 230 700		2	0	150		1.5		150			B7	TT
BB1	902 310 000	D <sub>1</sub>	16						D			B5	DD
BBC12	682 390 000	G <sub>1</sub>	2	4.5	150		2.5	1.5	100		1.5	B5	DDT
BB220A	446 230 700		2	3	150		4		100			B7	TT
BB240	446 230 700		2	0	150		5.4		100			B7	TT
BFI	642 300 000		4	15	150		8	1.3	100		1.3	B4	T
BF61	261 054 130		6	7	250	250	36	10	100	150	8	B8A	P
BF62	261 054 130		6	10	225	225	26	3.2	100	150	3.2	B8A	P
BF45I	261 054 130		45	9	175	175	54.5	9.5	100	100	7	B8A	P
BL2	652 310 000	G <sub>1</sub>	30	20	200	100	40	3	100	90	3	B5	P
BL63	027 146 310	G <sub>1</sub>	6	16	250		14	4.2	100		4.2	A08	TT
BW3	642 350 000		2	4.5	150	125	6	2.2	100	100	2.2	B5	P
BW602	642 300 000		2	12	150		12	3.4	100		3.4	B4	T
BW1304	642 300 000		2	6	150		6	3.2	100		3.2	B4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
BX2	446 230 700		2	0	175		2.5		100			B7	TT
BX604	642 300 000		2	12	150		8	1.5	100		1.5	B4	T
B2	642 300 000		2	2	125		2	1.2	100		1.2	B4	T
B7	642 300 000		6		125		8	0.67	100		0.67	B4	T
B11	642 300 000		6		200		20	1.4	100		1.4	B4	T
B21	447 230 600		2	6	150		2.2		100			B7	TT
B22	446 230 700		2		150		5		150			B7	TT
B23	642 300 000		2		125		4	0.75	100		0.75	B4	T
B24	446 230 700		2	0	150		7		100			B7	TT
B30	447 231 600		13	0	175				100			B7	TT
B36	471 461 230		13	8	250			2.6	100		2.6	A08	TT
B36A													
B36C													
B63	264 147 300		6	5	250		6	3.1	200		3.1	UX7	TT
B65	471 461 230		6	8	250		9	2.6	100		2.6	A08	TT
B152	741 226 413		6	2	250		10.0	5.5	200		5	B9A	TT
B203	642 300 000		2	26	150		11	1.5	100		1.5	B4	T
B204	264 300 000		2	22.5	125		8	0.9	100		0.9	UX4	T
B205	642 300 000		2	18	150		7	1.2	100		1.2	B4	T
B217	642 300 000		2	4.5	150		3	1.3	100		1.3	B4	T
B228	642 300 000		2	2	150		2	1.2	100		1.2	B4	T
B230	446 230 700		2	1	150		5.5		150			B7	TT
B240	470 642 300		2	0	150		15		150			C7	TT
B242	542 300 000	A	2	0	200	75	4.5	1.1	100	75	1.1	B4	P
B242	254 300 000	A	2	0	200	75	4.5	1.1	100	75	1.1	UX4	P
B255	542 300 000	A	2	1	150	100	1.8	1.2	150	100	1.2	B4	P
B255	254 300 000	A	2	1	150	100	1.8	1.2	150	100	1.2	UX4	P
B262	542 300 000	A	2	1	150	100	1.8	1.3	150	100	1.3	B4	P
B309	741 226 413		6	2	250		10	5.5	100		5	B9A	TT
B319	147 234 116		7.5	1.5	90		12	6	100		6	B9A	TT
B329	741 226 413		6	8.5	250		10.5	2.2	100		2.2	B9A	TT
B342	265 300 000	G <sub>1</sub>	2	2.5	150	75	4	1.3	150	75	1.3	UX4	P
B403	642 300 000		4	30	150		15	1.5	100		1.5	B4	T
B405	642 300 000		4	18	150		11	1.6	100		1.6	B4	T
B406	642 300 000		4	15	150		8	1.4	100		1.4	B4	T
B406	264 300 000		4	15	150		8	1.3	100		1.3	UX4	T
B409	642 300 000		4	16	250		12	2	100		2	B4	T
B415	642 300 000		4	4.5	150		3	2	100		2	B4	T
B424	642 300 000		4	2.3	200		6	2.5	150		2.5	B4	T
B424S	642 300 000		4	3	200		6	2.5	100		2.5	B4	T
B425	642 300 000		4	4.5	150		3	2	100		2	B4	T
B438	264 300 000		4	2.5	200		0.2	2	150		2	UX4	T
B438	642 300 000		4	2.5	200		0.2	2	150		2	B4	T
B438S	642 300 000		4	1.5	200		2	2	150		2	B4	T
B442	542 300 000	A	4	1	200	100	4.5	0.9	200	100	0.9	B4	P



VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
B442M	542 300 000	A	4	1	200	100	4.5	0.9	100	100	0.9	B4	P
B442M	254 300 000	A	4	1	200	100	4.5	0.9	100	100	0.9	UX4	P
B442S	542 300 000	A	4	1	200	100	4.5	0.91	100	100	0.9	B4	P
B443	642 350 000		4	17	200	150	12	1.2	100	PenLF	1.2	B5	P
B443S	642 350 000		4	12	250	75	12	1.6	100	60	1.6	B5	P
B491	642 310 000		4	1.5	200		4	4	150		4	B5	T
B543	642 350 000		5	15	200	150	12	1.3	150	100	1.3	B5	P
B543(S)	642 350 000		5	15	200	150	12	1.3	150	100	1.3	B5	P
B605	642 300 000		6	18	150		9	1.8	100		1.8	B4	T
B609	642 300 000		6	18	250		12	1.8	100		1.8	B4	T
B719	741 236 410		6	2	250		10.0	6.0	250		6.0	B9A	TT
B2006	642 310 000		20	18	200		15	1.6	100		1.6	B5	T
B2038	642 310 000		20	3	200		6	2.3	100		2.3	B5	T
B2041	602 300 000	G <sub>1</sub>	20	1	100		2.5	0.1	100		0.1	B4	T
B2042	542 310 000	A	20	2	200	60	4	1	100	60	1	B5	P
B2043	642 310 000	S	20	18	200	200	20	1.7	100	100	1.7	B5	P
B2044S	642 310 000	D <sub>1</sub>	20	3	200		6	1.8	100		1.8	B5	DT
B2045	542 310 000	A	20	2	200	60	4	1	150	60	1	B5	P
B2046	542 310 000	A	20	2	200	100	3	2.2	150	100	2.2	B5	P
B2047	542 310 000	A	20	2	200	100	4	2	150	100	2	B5	P
B2055	542 310 000	A	20	1.5	200	100	3	2	100	100	2	B5	P
B2052T	542 310 000	A	20	2	200	100	3	2	150	100	2	B5	P
B2099	642 310 000		20	1.6	200		0.08	3	150		3	B5	T
CBC1	023 198 060	G <sub>1</sub>	13	7	250		4	2	100		2	8SC	DDT
CBL1	023 189 560	G <sub>1</sub>	44	8.5	200	200	45	8	100	PenLF	7	8SC	DDP
CBL6	023 198 560	G <sub>1</sub>	44	8	100	100	45	6	100	75	6	8SC	DDP
CBL31	026 985 310	G <sub>1</sub>	44	8.5	200	200	45	8	100	PenLF	7	A08	DDP
CB215	446 230 700		2	1	150		15	1.7	100		1.7	B7	TT
CB215S	023 064 470		2	1	150		12	1.7	100		1.7	8SC	TT
CB220	446 230 700		2	3	150		15		100			B7	TT
CCHI	023 164 570	G <sub>1</sub>	20	<div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">{</div> <div style="display: flex; flex-direction: column; gap: 2px;"> <div>10</div> <div>2</div> <div>2</div> <div>2</div> </div> </div>	200		2.5	2.3	100		2.3		
					200	50	2		100	60		8SC	TH
					100		5.4	2.2	100		2.8		
					250	100	5	2.4	200	100	4	A08	TH
CCH35	027 546 310	G <sub>1</sub>	7.5		200		2.6	2	150		2	8SC	T
CCI	023 100 060	G <sub>1</sub>	13	3.7	200		6	2.5	200		2.5	8SC	T
CC2	023 100 060	G <sub>1</sub>	13	5.5	250							8SC	T
CE230	320 200 000	D <sub>1</sub>	2.5				30		REC		15mA	UX4	R
CF1	023 110 560	G <sub>1</sub>	13	2	200	100	3	2.3	100	100	2.3	8SC	P
CF2	023 110 560	G <sub>1</sub>	13	2	200	100	4.5	2.2	100	100	2.2	8SC	P
CF3	023 110 560	G <sub>1</sub>	13	2	100	75	7.5	2.1	100	75	2.1	8SC	P
CF7	023 110 560	G <sub>1</sub>	13	2	100	100	3	2.1	100	100	2.1	8SC	P
CF50	123 100 560	G <sub>1</sub>	30	2	100	100	1.5	3.3	100	100	3.3	8SC	P
CHI	023 145 560	G <sub>1</sub>	13	2	250	75	3	1.8	200	75	1.8	8SC	P
CK1	023 154 560	G <sub>1</sub>	13	1.5	200	90	8	3	200	75	1.6	8SC	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
CK1007	008 092 030		1				60		REC		20mA	A08	RR
CL1	023 100 560	G <sub>1</sub>	13	14	200	200	25	2.5	100	PenLF	2.5	8SC	P
CL2	023 100 560	G <sub>1</sub>	24	15	100	100	50	3.8	200	75	3.8	8SC	P
CL3	160 452 300		35	9.5	200	200	40	5.5	150	100	5	C7	P
CL4	023 100 560	G <sub>1</sub>	33	8.5	200	200	45	8	100	PenLF	7	8SC	P
CL6	023 100 560	G <sub>1</sub>	35	9.5	200	100	45	8	100	90	7	8SC	P
CL33	026 540 310		33	8.5	200	200	45	8	100	100	7	A08	P
CV135	812 380 000		6				60		Rec		23mA	B7G	R
CV137	812 314 600		6	3	200		7.5	2.5	100		2.5	B7G	DT
CV139	412 314 600		6	1.5	250		10	9	100		6	B7G	T
CV1510	265 501 403		6		400	250	30	3	100	150	3	B9G	P
CY1	023 100 080		20				120		REC		23mA	8SC	R
CY2	123 190 080		30				60		REC		20mA	8SC	RR
CY21	208 001 003		25				120		REC		23mA	B9G	R
CY31	020 080 310		20				120		REC		30mA	A08	R
CY32	029 180 310		30				60		REC		23mA	A08	RR
C9	642 300 000		4	9	150		3.5	0.9	100		0.9	B4	T
C10B	023 100 080		20				75		REC		23mA	8SC	R
C10B	802 310 000		20				60		Rec		23mA	B5	R
C20C	982 310 000		13						D			B5	DD
C23B	809 231 600	G <sub>1</sub>	13	5	200		4	2	100		2	B7	DDT
C25	642 300 000		4	2.5	200		2.3	1.2	150		1.2	B4	T
C30B	000 231 600	G <sub>1</sub>	13	4	200		4	3.2	150		3.2	B7	T
C50B	061 231 500	G <sub>1</sub>	13	2.2	200	200	2.5	2.8	100	PenLF	2.8	B7	P
C50N	061 231 500	G <sub>1</sub>	13	2	200	200	9.5	2	100	150	2	B7	P
C70D	023 110 560	G <sub>1</sub>	33	8.5	200	200	45	8	100	PenLF	7	8SC	P
C70D	045 231 600		35	8.5	200	200	45	8	100	PenLF	7	B7	P
C80B	123 154 560	G <sub>1</sub>	13	1.5	200	90	1.6		150	75		8SC	O
C109	642 300 000		1	9	150		3.5	0.5	100		0.5	B4	T
C125	642 300 000		1	3	150		0.8	0.8	125		0.8	B4	T
C135	042 300 000	A	1.4	1	150		1.5	1	150		1	B4	T
C142	542 300 000	A	1	1.5	150	75	1.7	0.8	100		0.8	B4	P
C243	642 350 000		2	15	150	150	17	1.5	100	100	1.5	B5	P
C243N	642 350 000		2	4.5	150	125	6	2.2	150	100	2.2	B5	P
C243N	264 530 000		2	4.5	150	125	6	2.2	150	100	2.2	UX5	P
C405	642 300 000		4	32	250		20	1.9	100		1.9	B4	T
C405	264 300 000		4	32	250		20	1.9	100		1.9	UX4	T
C408	642 300 000		4	7	150		14	2.9	100		2.9	B4	T
C443	642 350 000		4	25	300	200	20	1.7	100	PenLF	1.7	B5	P
C443N	642 350 000		4	42	300	200	20	1.5	100	PenLF	1.5	B5	P
C443N/S	642 350 000		4	20	300	150	20	1.5	100	100	1.5	B5	P
C453	642 350 000		4	25	300	200	20	1.7	100	PenLF	1.7	B5	P
C508	264 300 000		5	9	150		6.2	1.7	100		1.7	UX4	T
C509A	642 300 000		4	10	150		10	1	100		1	B4	T
C603	642 300 000		6	40	175		20	1.7	100		1.7	B4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE	
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
C606	642 300 000	G <sub>1</sub>	6	27	250	200	20	3.3	100	PenLF	3.5	B4	T	
C643	642 350 000		6	21	300		20	1.5	100		1.5	B5	P	
DAC1	023 008 060		1.4	1	90		0.14	0.27	80		0.27	8SC	DT	
DAC21	206 008 030		1.4	1	90		0.5	0.3	80		0.3	A08	DT	
DAC25	264 228 230		1.4	1	125		0.6	0.35	125		0.35	A08	DT	
DAC31	036 080 200	G <sub>1</sub>	1.4	1	90	50	0.45	0.27	80	60	0.27	A08	DT	
DAC32	036 080 200	G <sub>1</sub>	1.4		90		.15	0.275	90		0.275	A08	DT	
DAF11	802 362 450		1.4	0	90		0.22	2	80		2	F8	DP	
DAF40	268 354 230		1.4	1.0	75		0.85	0.7	80		75	0.8	B9A	DP
DAF41	268 354 230		1.4	1.0	75		0.85	0.7	80		75	0.8	B9A	DP
DAF91	208 564 300	A	1.4	1	90	90	2	0.72	80	90	0.72	B7G	DP	
DAF96	208 564 300		1.4	1.5	60	60	0.17	0.17	60	60	.17	B7G	DP	
DASI	542 300 000		2	2.7	125	125	1.5	0.58	100	100	0.58	Sm4	P	
DA	000 231 600		G <sub>1</sub>	13	2.6	200		3.7	2.2	150		2.2	B7	T
DAI	642 300 000		2	1	40		0.25	0.4	No Data Available			Sm4	T	
DA2	642 300 000	A	2	2.15	40	75	1.25	0.5	No Data Available			Sm4	T	
DA3	642 300 000		2	2.8	40		1.8	0.62	No Data Available			Sm4	T	
DA30	642 300 000		4	70	300		60	3.5	100	6.0	B5	T		
DA90	281 0*8 300		1.4				5		D		B7G	R		
DA406	542 300 000		4	2.5	150		3	0.8	100	75	0.8	B4	P	
DB	446 230 700	G <sub>1</sub>	25	0	250		40		250			B7	TT	
DBC21	206 098 030		1.4	1.5	125		1.6	0.9	100		0.9	A08	DDT	
DBC31	026 980 300		1.4	1.5	125		1.6	0.9	100		0.9	A08	DDT	
DC11	602 302 400		1.4	2.5	90		2.0	1.0	80		1.0	F8	T	
DCC90	274 346 200		1.4	2.5	90		2.7	1.8	80		1.8	B7G	TT	
DC/HL	642 310 000	G <sub>1</sub>	6	1	100	60		3	100	3		B5	T	
DCH21	207 540 630		1.4	<div><div>0</div><div>60</div></div>	60		2.1	1.4	No Data Available			<div><div></div><div>A08</div></div>	TH	
DCH22	276 454 030		1.4	<div><div>0</div><div>60</div></div>	50		1.4	No Data Available			A08		TH	
				<div><div>0</div><div>90</div></div>			0.75							
DCH25	276 454 030		1.4	<div><div>0</div><div>60</div></div>	60		2	1.3	No Data Available				A08	TH
DC/P	642 310 000		8	1	200			4.5	200		4.5	B5	T	
DC/SG	542 310 000	A	6		200	75		2.75	200	75	2.75	B5	P	
DC2/HLDD	809 231 600	G <sub>1</sub>	25	1	200			2	200		2	B7	DDT	
DC2P	642 310 000		35	13.5	200		17	3.75	200		3.75	B5	T	
DC2/Pen	045 231 600		35	10	250	200	30	2.5	100	PenLF	2.5	B7	P	
DC2/Pen	642 310 000	S	35	10	250	200	30	2.5	100	PenLF	2.5	B5	P	
DC2SG	542 310 000	A	20	1	200	75	5.5	1.8	200	75	1.8	B5	P	
DC2SGVM	542 310 000	A	20	2	200	60	5.8	1.5	200	60	1.5	B5	P	
DC3HL	642 310 000		25	1	80		0.34	0.38	80		0.38	B5	T	
DC25	260 024 030		1.4	3.5	100		1.8	0.85	100		0.85	B8B	T	
DC80	402 320 060		1.2	0	150		20	3.5	No Data Available			B9A	T	
DDD11	742 302 460		1.2	4.5	125		1.5		125		1.5	A08	TT	
DDD25	206 447 030		1.4	1.5	100		3.5	1.2	100		1.2	A08	TT	

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
DDL4	892 310 000		4				5		D			B5	RR
DDP4B	968 231 500	G <sub>1</sub>	4	5	250	250	36	8	100	PenLF	7	B7	DDP
DDP4M	918 236 500	G <sub>1</sub>	4	5	250	250	36	8	100	PenLF	7	B7	DDP
DD/Pen	849 231 500	A	4	2.5	200	100	5	2.7	100	100	2.7	B7	DDP
DDPP4B	869 231 500	G <sub>1</sub>	4	5	250	250	36	10	100	PenLF	9	B7	DDP
DDPP4BS	023 189 560	G <sub>1</sub>	4	5	250	250	36	10	100	PenLF	9	8SC	DDP
DDPP4M	869 231 500	G <sub>1</sub>	4	5	250	250	36	10	100	PenLF	9	B7	DDP
DDPP6B	968 231 500	G <sub>1</sub>	6	6	250	250	36	9.5	100	PenLF	9	B7	DDP
DDPP39	968 231 500	G <sub>1</sub>	35	8	200	200	45	8.5	100	PenLF	8	B7	DDP
DDPP39M	918 236 500	G <sub>1</sub>	35	8	200	200	45	8.5	100	PenLF	8	B7	DDP
DDPP39S	023 198 560	G <sub>1</sub>	35	8	200	200	45	8.5	100	PenLF	8	8SC	DDP
DDT	908 231 600	G <sub>1</sub>	4	3	200		3	2.4	150		2.4	B7	DDT
DDT2	682 390 000	G <sub>1</sub>	2	3	150		1	1.4	100		1.4	B5	DDT
DDT2B	682 390 000	G <sub>1</sub>	2	4.5	150		2.5	1	100		1	B5	DDT
DDT2BS	023 089 060	G <sub>1</sub>	2	4.5	150		2.5	1	100		1	8SC	DDT
DDT4	809 231 600	G <sub>1</sub>	4	3	200		3	2.5	150		2.5	B7	DDT
DDT4(S)	908 231 600	G <sub>1</sub>	4	5	250		4	3.6	150		3.6	B7	DDT
DDT4(S)	023 198 060	G <sub>1</sub>	4	5	250		4	3.6	150		3.6	8SC	DDT
DDT6	809 231 600	G <sub>1</sub>	6	5.5	250		5	2	150		2	B7	DDT
DDT6S	023 189 060	G <sub>1</sub>	6	5.5	250		5	2	150		2	8SC	DDT
DDT13	908 231 600	G <sub>1</sub>	13	4	200		5	2.3	150		2.3	B7	DDT
DDT13S	023 189 060	G <sub>1</sub>	13	5	200		4	3.6	100		3.6	8SC	DDT
DDT16	809 231 600	G <sub>1</sub>	16	3	200		5	2.5	100		2.5	B7	DDT
DDT213	809 231 600	G <sub>1</sub>	13	4	200		5	2.25	150		2.2	B7	DDT
DDT215	682 390 000	G <sub>1</sub>	2	3	150		3	1.6	100		1.6	B5	DDT
DDT220	682 390 000	G <sub>1</sub>	2.5	4.5	150		2.5	1	100		1	B5	DDT
DD4	892 310 000		4						D			B5	DD
DD4D	091 231 800		4						D			B7	DD
DD6	892 310 000		6						D			B5	DD
DD6	192 310 800		6				5		D			B7G	RR
DD6G	192 310 800		6				5		D			B7G	RR
DD6Ds	023 180 910		6						D			8SC	DD
DD13	892 310 000		13						D			B5	DD
DD4I	219 080 130		4						D			M08	DD
DDI01	219 080 130		10						D			M08	DD
DD207	892 300 000		2						D			B4	DD
DD465	902 310 000	D <sub>1</sub>	4						D			B5	DD
DD620	892 310 000		6						D			B5	DD
DD818	892 310 000		8						D			B5	DD
DET19	204 140 300	A <sub>1</sub> A <sub>2</sub>	6	45.0	250		50		No Data Available			UX7	TT
DET20	020 000 310	A <sub>1</sub> G <sub>1</sub>	6	5.5	250		12	3	100		3	A08	T
DEI	264 130 000		2.5	21	250		5.2	0.975	100		0.975	UX5	T
DE5	280 300 000		2.5				120		REC		30mA	UX4	R
DFF50	246 557 430		1.4	11	20	20	22.5	1.2	No Data Available			A08	PP
DFF51	246 557 430		1.4	1	20	20	2.1	0.7	No Data Available			A08	PP

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
DFF101	634 572 400		1-4		40	40	1	0-22	No Data Available			B7G	PP
DF1	032 000 560	G <sub>1</sub>	1-4	1	90	90	1-2	0-75	80	90	0-75	8SC	P
DF11	602 302 450		1-4	0	90	50	0-9	0-65	80	60	0-6	F8	P
DF21	206 501 030	G <sub>1</sub>	1-4	1	90	90	1-2	0-7	80	90	0-7	A08	P
DF22	206 501 030	G <sub>1</sub>	1-4	1-5	90	90	1-4	1-1	80	90	1-1	A08	P
DF23	265 114 130		1-4	1-5	90	60	0-65	0-58	80	60	0-58	A08	P
DF25	265 114 130		1-4	1	125	60	1	0-65	125	60	0-65	A08	P
DF26	265 114 130		1-4	1-1	125	90	1-2	0-3	125	90	0-3	A08	P
DF31	026 510 300	G <sub>1</sub>	1-4	1	90	90	1-2	0-65	80	90	0-65	A08	P
DF32	026 510 300	G <sub>1</sub>	1-4	1-5	90	90	1-4	1-1	80	90	1-1	A08	P
DF33	036 500 200	G <sub>1</sub>	1-4	0-5	90	90	0-82	0-75	80	90	0-75	A08	P
DF91	265 024 300		1-4	1	90	75	3-5	0-9	80	60	0-9	B7G	P
DF96	265 024 300		1-4	1	90	75	3-7	1	80	60	1	B7G	P
DF96	265 †24 300		1-4	0-8	75	75	1-4	0-65	80	75	0-75	B7G	P
DG210	642 350 000		2	1-5	100	20	1	1	No Data Available			B5	P
DH	642 310 000		16	3	200		6	3-7	100		3-7	B5	T
DHD	908 231 600	G <sub>1</sub>	16	1	200			2-2	200		2-2	B7	DDT
DHL	642 310 000		16	1-5	150		3-8	4-5	100		4-5	B5	T
DH30	908 231 600	G <sub>1</sub>	13	2	200		2-8	4-5	150		4-5	B7	DDT
DH42	908 231 600	G <sub>1</sub>	4	3	250		1-1	1-2	150		1-2	B7	DDT
DH63	026 890 310	G <sub>1</sub>	6	3	250		1-1	1-2	150		1-2	A08	DDT
DH73	026 890 310	G <sub>1</sub>	6	1	250			2	250		2	A08	DDT
DH74	026 890 310	G <sub>1</sub>	13	3	250		1-1	1-2	100		1-2	A08	DDT
DH76	026 980 310	G <sub>1</sub>	13	3	250		1-1	1-2	150		1-2	A08	DDT
DH77	412 389 600		6	3	250		1	1-2	150		1-2	B7G	DDT
DH81	264 *98 130		6	3	250		1	1-2	150		1-2	B8B	DDT
DH101	264 *98 130		19	3	250		1	1-2	150		1-2	B8B	DDT
DH107	412 389 600		19	3	250		1	1-2	150		1-2	B7G	DDT
DH142	264 089 130		14		175		1-5	1-65	100		1-6	B8A	DDT
DH147	026 890 310	G <sub>1</sub>	6	5-5	250		5	2	100		2	A08	DDT
DH149	264 198 130		6	1-0	250		1-3	1-0	250		1-0	B8A	DDT
DH150	264 098 130		6	3	250		1-0	1-3	150		1-3	B8A	DDT
DH719	981 23† 146		6	3	250		1-0	1-5	100		1-3	B9A	DDDT
DK1	023 064 560	G <sub>1</sub>	1-4	0	90	50	1-8	0-55	80	60	0-55	8SC	H
DK21	206 540 630	G <sub>1</sub>	1-4	2	60	60	4-5	1-4	80	60	1-4	A08	H
DK32	036 546 200	G <sub>1</sub>	1-4	0	90	50	1-8	0-55	80	60	0-55	A08	H
DK40	265 454 030		1-4	2	75	75	0-9	0-7	No Data Available			B8A	O
DK91	266 424 300		1-4	4	75		4-5	1-2	80		1-4	B7G	H
DK92	266 464 300		1-4	4	60		4-0		80		1-4	B7G	H
DK96	265 461 300		1-4	4-1	60	60	1-65	0-1	No Data Available			B7G	H
DL	642 310 000		16	8	200		25	4-5	100		4-5	B5	T
DLL21	246 547 330		1-4	8-7	125	125	1		100	100		A08	PP
DLL31	326 447 250		1-4	5	90	90	3		No Data Available			A08	PP
DLL101	264 574 300		1-4		90	60	4-5	1-2	80	60	1-2	B7G	PP
DLL102	264 574 300		1-4		40	40	1-3	0-55	No Data Available			B7G	PP

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
DL1	023 004 560		1.4	3	90	90	4	1.25	80	75	1.25	8SC	P
DL2	032 004 560		1.4	7.5	90	90	7.5	1.55	80	75	1.55	8SC	P
DL11	602 302 450		1.4	4.4	90	90	3.7	1.0	80	90	1	F8	P
DL21	206 540 030		1.4	3	90	90	4	1.3	80	90	1.3	A08	P
DL22	265 024 330		1.4	4	125	125	5	1.6	100	100	1.6	A08	P
DL25	265 204 330		1.4	4.7	125	125	4.5	2.1	100	100	2.1	A08	P
DL31	036 540 200		1.4	3	90	90	4	1.25	80	75	1.25	A08	P
DL33	036 540 320		1.4	4.5	90	90	9.5	2.2	80	75	2.2	A08	P
DL35	036 540 200		1.4	7.5	90	90	7.5	1.55	80	75	1.55	A08	P
DL41	362 054 220		1.4	3	90	90	4	1.3	80	90	1.3	B8A	P
DL63	026 890 310	G <sub>1</sub>	6	3	250		4.2	1.6	100		1.6	A08	DDT
DL74	026 890 310	G <sub>1</sub>	13	3	250		5.1	1.65	100		1.65	A08	DDT
DL82	264 998 130		6.0	2	200			1.4	150		1.4	B8B	DDT
DL91	264 536 200		1.4	7	90	75	7.4	1.58	80	60	1.5	B7G	P
DL92	264 536 200		1.4	7	90	75	7.4	1.58	80	75	1.58	B7G	P
DL93	365 426 300		1.4	8.4	150	90	13.3	1.9	100	75	1.9	B7G	P
DL94	365 024 300		1.4	4.5	90	90	9.5	2.15	80	75	2.15	B7G	P
DL95	264 536 200		1.4	4.5	90	90	9.5	2.15	80	75	2.1	B7G	P
DL96	265 034 200		1.4	3.0	60	60	3.5	1.4	60	60	1.4	B7G	P
DL145	264 098 130		15	5.9	250		5	2.3	150		2.3	B8A	DDT
DN41	968 231 500	G <sub>1</sub>	4	3.3	250	200	32	10	100	PenLF	9	B7	DDP
DN143	264 598 130		6	6.2	250	275	44	9.5	100	PenLF	9	B8B	DDP
DP	264 008 030		16	7.5	200		25	6	100		6	M08	DT
DP5	642 350 000		4	5	250	250	10	4	100	PenLF	4	B5	P
DP7	023 004 560		4	20	250	250	20	2.5	100	PenLF	2.5	8SC	P
DP61	412 365 100		6	2.3	150	150	7	4.3	150	150	4	B7G	P
DP/Pen	045 231 600		16	10	200	200	31	3.5	100	100	3.5	B7	P
DPT	045 231 600		16	10	200	200	40	3.1	100	PenLF	3.1	B7	P
DP495/6	869 231 500	G <sub>1</sub>	4	6.5	250	250	35		100	PenLF		B7	DDP
DP4480	819 236 500	G <sub>1</sub>	44	8.4	200	200	46	8	100	PenLF	7	B7	DDP
DS	000 231 600	G <sub>1</sub>	13	3	200		4	2.5	150		2.5	B7	T
DS	542 310 000	A	16	1.5	200	75	2.8	1.1	200	75	1.1	B5	P
DSB	542 310 000	A	16	1	150	90	3.4	3.2	150	90	3.2	B5	P
DSPen	061 231 500	G <sub>1</sub>	16	1.5	200	100	4.7	2.3	200	100	2.3	B7	P
DT7	642 300 000		4	16	200		14	2	100		2	B4	T
DT436	023 198 060	G <sub>1</sub>	4	7	250		4	2	100		2	8SC	DDT
DT1366	023 198 060	G <sub>1</sub>	13	5	200		4	2	100		2	8SC	DDT
DUI	802 300 000		4				30		Rec		15mA	B4	R
DU2	892 300 000		4				30		Rec		17mA	B4	RR
DU3	892 300 000		4				15		Rec		10mA	B4	RR
DU4	892 300 000		4				30		Rec		15mA	B4	RR
DU5	892 300 000		4				30		Rec		17mA	B4	RR
DUI0	802 300 000		4				60		Rec		25mA	B4	R
DVSG	542 310 000	A	16	1	200	75	7.5	2.5	100	75	2.5	B5	P
DVS Pen	542 310 000	A	16	1.5	200	100	5.5	2	200	100	2	B5	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
DW1	892 300 000		4				15		Rec		10mA	B4	RR
DW2	892 300 000		4				30		REC		15mA	B4	RR
DW3	892 300 000		4				30		REC		15mA	B4	RR
DW4	892 300 000		4				60		REC		20mA	B4	RR
DW4/350	892 300 000		4				60		REC		20mA	B4	RR
DW4/500	892 300 000		4				60		REC		20mA	B4	RR
DW5	802 300 000		4				120		Rec		30mA	B4	R
DW7X	892 300 000		4				30		Rec		15mA	B4	RR
DW8	892 300 000		5				30		Rec		15mA	B4	RR
DW30	892 300 000		7.5				60		Rec		20mA	B4	RR
DW802	642 300 000		4	25	250		26	4	100		4	B5	T
DW1508	642 310 000		4	7.5	150		4	1.5	100		1.5	B5	T
DW4011	642 310 000		4	5.0	200		5.0	3.6	150		3.6	B5	T
DW4023	642 310 000		4	3.0	150		2.5	1.75	100		1.7	B5	T
DX2	642 300 000		2	3	150		3.5	1.4	100		1.4	B4	T
DY604	642 300 000		4	15	150		8	1.3	100		1.3	B4	T
DZ2	542 300 000	A	4	1	200	100	4	0.7	100	100	4	B4	P
DI	123 000 000	D <sub>1</sub>	4				5		D			B3G	R
DI	642 300 000		4	1	40		1	0.8	No Data Available			B4	T
DI	289 300 000		5				60		REC		20mA	UX4	RR
D2	642 300 000		4	6	100		2.2	0.25	100		0.25	B4	T
D4	642 310 000		4	3	200		4	3.3	150		3.3	B5	T
D020	642 300 000		7.5	50	400		55	2.1	100		2.1	B4	T
D024	642 300 000		4	40	400		63	7.5	100		6.0	B4	T
D025	642 300 000		6	75	300		60	3.75	100		3.75	B4	T
D026	642 300 000		4	92	400		63	3.8	100		3.8	B4	T
D030	642 300 000		4	100	400		60	6.9	100		6.0	B4	T
D41	892 310 000		4						D			B5	DD
D42	812 300 000		4						D			B4	D
D43	012 300 000	A	4				15		D			B5	DD
D63	028 190 210		6						D			A08	DD
D77	182 309 000		6				5		D			B7G	DD
DI10	264 300 000		4	40	250		40	2.7	100		2.7	UX4	T
DI10	642 300 000		4	40	250		40	2.7	100		2.7	B4	T
DI21	268 154 130		12.5	2	200	90	5	2	100	100	2	B8A	DP
DI52	192 310 800		6				5.0		D			B7G	D
D210	642 300 000		2	3	150		3.5	1.25	100		1.25	B4	T
D210SW	603 200 000	G <sub>1</sub>	2	4.5	150		2.4	1.35	100		1.35	B4	T
D243	642 350 000		2.5	27	300	200	20	2	100	PenLF	2	B5	T
D404	642 300 000		4	10	100		4	0.45	100		0.45	B4	T
D410	642 300 000		4	3	150		3.5	0.5	150		0.5	B4	T
D418	102 300 000	D <sub>1</sub>	4						D			B4	D
E	642 300 000		4	9	200		1.7	0.4	100		0.4	B4	T
EABC80	†91 238 146		6	3	250		1.0	1.2	100		1.3	B9A	DDDT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
EAB1	023 1†0 890		6						D			8SC	DDD
EAC91	812 314 600		6	3.2	200		7.5	2.8	100		2.8	B7G	DT
EA40	268 154 130		6	2	250	100	5.0	1.8	100	100	1.8	B8A	DP
EA40	268 154 130		6	2	250	100	5	1.8	100	100	1.8	B8A	DP
EA40	200 800 130		6						D			B8A	D
EA50	123 000 000	D <sub>1</sub>	6						D			B3G	D
EA76	281 380 000		6				5		No Data Available			M5	R
EBC1	023 198 060	G <sub>1</sub>	6	7	250		4	2	100		2	8SC	DDT
EBC3	023 189 060	G <sub>1</sub>	6	5.5	250		5	2	100		2	85C	DDT
EBC11	892 301 460		6	6.3	200		4	2	100		2	F8	DDT
EBC21	264 *89 130		6	5.5	250		5	2	100		2	B8B	DDT
EBC30	023 189 060	G <sub>1</sub>	6	4.3	200		4	2	150		2	8SC	DDT
EBC33	026 890 310	G <sub>1</sub>	6	5.5	250		5	2	100		2	A08	DDT
EBC41	264 098 130		6	3	250		1	1.3	150		1.3	B8A	DDT
EBC90	412 389 600		6	3	250		1	1.2	150		1.2	B7G	DDT
EBF1	023 198 560	G <sub>1</sub>	6	3	250	125	9	1.1	100	100	1.1	8SC	DDP
EBF2	032 198 560	G <sub>1</sub>	6	2	250	100	5	1.8	100	PenLF	1.8	8SC	DDP
EBF11	982 361 450		6	2	250	100	5	1.8	100	100	1.8	F8	DDP
EBF15	982 361 450		6	2	250	100	12	5	100	100	5	F8	DDP
EBF32	026 895 310	G <sub>1</sub>	6	2	250	100	5	1.8	100	100	1.8	A08	DDP
EBF35	216 589 130	G <sub>1</sub>	6	2	250	100	5	1.8	100	100	1.8	A08	DDP
EBF80	541 236 891		6	2	250	90	5	2.2	100	90	2.2	B9A	DDP
EBL1	023 189 560	G <sub>1</sub>	6	6	250	250	36	9.5	100	PenLF	9.0	8SC	DDP
EBL21	264 598 130		6	6.2	250	275	44	9.5	100	PenLF	9.0	B8B	DDP
EBL31	026 895 310	G <sub>1</sub>	6	6	250	250	36	9.5	100	PenLF	9.0	A08	DDP
EB4	023 180 910		6						D			8SC	DD
EB11	802 301 190		6						D			F8	DD
EB34	029 180 310		6				5.0		D			A08	DD
EB40	208 090 130		6						D			B8A	DD
EB41	201 908 130		6				5		D			B8A	RR
EB91	192 310 800		6				5		D			B7G	RR
ECC31	027 446 310		6	4.6	250		6	2.3	100		2.3	A08	TT
ECC32	461 471 230		6	4.6	250		6	2.3	100		2.3	A08	TT
ECC33	461 471 230		6	4	250		9	3.6	100		3.6	A08	TT
ECC34	461 471 230		6	16	250		10	2.2	100		2.2	A08	TT
ECC35	461 471 230		6	2.3	250		2.3	2	100		2	A08	TT
ECC40	274 164 130		6	5.2	250		6	2.7	100		2.7	B8A	TT
ECC81	741 226 413		6	1.5	200		8.5	6.5	150		5	B9A	TT
ECC82	741 226 413		6	8.5	250		10.5	2.2	100		2	B9A	TT
ECC83	741 226 413		6	2.0	250		1.2	1.6	150		1.6	B9A	TT
ECC84	147 234 116		6	1.5	90		12	6.0	100		6.0	B9A	TT
ECC85	741 236 410		6	2.3	250		10	5.9	100		5	B9A	TT
ECC91	672 344 100		6	0.85	100		8.5	5.3	100		5.3	B7G	TT
ECF1	023 164 570	G <sub>1</sub>	6	2.0	150	0	9.0	2.6	150	60	2.6	B7G	TP
ECF1	023 164 570	G <sub>1</sub>	6	2.0	100	100	5.0	2.5	100	100	2.5	B7G	TP



VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
ECF12	642 371 450		6	{ 2	100	0		3.0	100	60	3.0	F8	TP
				{ 2	250	100	5.0	2.0	100	100	2.0		
ECF80	645 237 114		6	{ 2	100	0	14	5	100	60	5		
				{ 2	175	175	10	6.2	100	150	6	B9A	TP
ECH2	023 164 570	G <sub>1</sub>	6	{ 1	100		9.5	5.5	100		5.5		
				{ 2.5	250	100	3.25		250	100		8SC	TH
ECH3	023 164 570	G <sub>1</sub>	6	{ 2	100		5	2.4	100		2.8	8SC	TH
				{ 2	250	100	4.8	2.5	200	100	2.5		
ECH4	123 614 570	G <sub>1</sub>	6	{ 2	100		6.3	2.7	100		2.2	8SC	TH
				{ 2	250	100	6.5	2.6	100	PenLF	2.6		
ECH11	264 371 450		6	{ 2.0	100	0	5.0	2.4	100		2.8	F8	TH
				{ 2.0	250	100	4.7	2.5	200	100	2.5		
ECH21	276 454 131		6	{ 2	100		6.25	2.4	100		3.2	B8B	TH
				{ 2	250	90	5.3	2.2	100	90	2.2		
ECH33	027 546 310	G <sub>1</sub>	6	{ 2	100		5	2.4	100		2.8	A08	TH
				{ 2	200	100	3		100	100			
ECH35	027 546 310	G <sub>1</sub>	6	{ 2	100		5.4	2.2	100		2.8	A08	TH
				{ 2	250	100	5	2.4	100	100	1.2		
ECH41	276 454 130		6	{ 2	100		5	2.2	100		2.2	B8A	TH
				{ 2	250	100	3	2	100	100	2.4		
ECH42	276 454 130		6	{ 2	100		5	2.2	100		2.8	B8A	TH
				{ 2	250	100	3	2	100	100	3.5		
ECH81	541 237 164		6	{ 3	100		5	2.3	100		2.3		
				{ 2	250	100	6.5	2.4	150	100	2.4	B9A	TH
ECL11	452 371 460		6	{ 2	250	0	2.0	2.0	100	60	2.0	F8	TP
				{ 6.0	250	250	36	9.0	100	150	7.0		
ECL80	641 237 154		6	{ 2.3	100	0	4	1.4	100		1.4	B9A	TP
				{ 8.0	200	200	17.5	3.3	100	PenLF	3.0		
ECL113	267 454 130		6	{ 1.5	250	0	0.6		100	60			
				{ 3.5	250	250	25	8.5	100	150	8.5	B8A	TP
EC2	023 100 060	G <sub>1</sub>	6	5.5	250		6	2.5	100		1.5	8SC	T
EC31	026 040 310		6	16	150		20	3.2	100		3.2	A08	T
EC40	244 644 130		6	1.5	275		15	12	100		9	B8A	T
EC41	206 040 130		6	5.5	175		20	4.5	125		4.5	B8A	T
EC52	241 600 003		6	2.6	250		10	6.5	100		6.5	B9G	T
EC53	123 000 000	A G <sub>1</sub>	6	3.3	200		7.5	2.9	100		2.9	B3G	T
EC54	244 664 413		6	1.5	250		10	9	100		7	B9G	T
EC70	462 603 160		6	2	100		13	5.5	100		5.5	M8	T
EC80	441 230 446		6	1.5	250		15	12	150		10	B9A	T
EC81	401 230 060		6	2	150		30	5.5	100		4	B9A	T
EC90	6*2 364 100		6	8.5	250		10.5	2.2	100		3.1	B7G	T
EC91	412 314 600		6	2	250		6	8.5	200		8.0	B7G	T
EC92	602 304 100		6	2.0	250		10.0	5.0	100		5.0	B7G	T
EDD11	742 301 460		6	8.0	200		3.5		200		3.5	F8	TT
EDD111	742 311 460		6	8.0	250		9.0	2.3	100		2.3	F8	TT
EFF50	265 414 573		6	2	250	200	6	8	100	PenLF	7	B9G	PP

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
EFF51	265 414 573		6	2	250	200	6	8	100	PenLF	7	B9G	PP
EFM1	023 114 560		6	2	250	100	1-3		No Data Available			85C	IP(p. 105)
EF1	023 110 560	G <sub>1</sub>	6	2	250	100	3	2-3	100	100	2-3	85C	P
EF2	023 110 560	G <sub>1</sub>	6	2	250	100	4-5	2-2	100	100	2-2	885C	P
EF3	023 110 560	G <sub>1</sub>	6	2-5	250	100	8	1-8	100	100	1-8	85C	P
EF5	023 110 560	G <sub>1</sub>	6	3	250	100	8	1-7	100	100	1-7	85C	P
EF6	023 110 560	G <sub>1</sub>	6	2	250	100	3	2	100	100	2	85C	P
EF7	023 110 560	G <sub>1</sub>	6	1-5	250	100	3	2-1	100	100	2-1	85C	P
EF8	023 111 560	G <sub>1</sub>	6	2-5	250	250	8	1-8	100	PenLF	1-8	85C	P
EF9	023 110 560	G <sub>1</sub>	6	2-5	250	100	6	2-2	100	100	2-2	85C	P
EF11	602 301 450		6	2	250	100	6	2-2	100	100	2	F8	P
EF12	602 301 450		6	2	250	100	3	2-1	100	100	2	F8	P
EF13	612 301 450		6	2	250	100	4-5	2-3	100	100	2	F8	P
EF14	612 350 140		6	4-5	200	200	12	7	100	150	6	F8	P
EF15	612 301 450		6	2	250	100	12	5-5	100	100	5	F8	P
EF22	265 104 130		6	2-5	250	100	6	2-2	100	100	2-2	B8B	P
EF25	023 110 560	G <sub>1</sub>	6	2	250	100	5	1-8	100	100	1-8	85C	P
EF36	026 510 310	G <sub>1</sub>	6	2	250	100	3	1-8	100	100	1-8	A08	P
EF37	026 510 310	G <sub>1</sub>	6	2	250	100	3	1-8	100	100	1-8	A08	P
EF37A	026 510 310	G <sub>1</sub>	6	2	250	100	3	1-8	100	100	1-8	A08	P
EF38	126 510 310	G <sub>1</sub>	6	2-5	250	250	8	1-8	100	PenLF	1-8	A08	P
EF39	026 510 310	G <sub>1</sub>	6	2-5	250	100	6	2-2	100	100	2-2	A08	P
EF40	26* 145 130		6	2	250	150	3	1-8	100	150	1-8	B8A	P
EF41	261 154 130		6	2-5	250	100	6	2-2	100	100	2-2	B8A	P
EF42	260 154 130		6	2	250	250	10	9-5	100	PenLF	8-0	B8A	P
EF43	260 154 130		6	2	250	150	15	6-4	100	150	6	B8A	P
EF50	256 101 403		6	1-55	250	250	10	6-5	100	PenLF	6-0	B9G	P
EF51	261 154 130		6	2	250	250	14	9-5	100	PenLF	9-0	B8B	P
EF52	261 154 130		6	2	250	250	10	10	100	150	8	B8G	P
EF53	256 101 403		6	2	250	250	10	6-5	100	150	6-5	B9G	P
EF54	265 114 113		6	1-7	250	250	10	7-7	100	PenLF	7-0	B9G	P
EF55	256 101 403		6	4	250	150	10	7	100	100	6	B9G	P
EF70	412 163 510		6	2	100	100	3	2-3	100	100	2-3	M8	P
EF71	412 163 510		6	2	100	100	13	5-5	100	100	5-5	M8	P
EF72	412 163 510		6	1-4	100	100	7	5	100	100	5	M8	P
EF73	412 653 160		6	2	100	100	7-5	5	100	100	5	M8	P
EF80	141 230 651		6	2	175	175	10	7-2	100	100	6	B9A	P
EF82	*41 230 651		6	4-5	250	250	40	11	100	150	9	B9A	P
EF85	141 230 651		6	2	250	100	10	6	150	100	5	B9A	P
EF86	501 236 014		6	1	250	100	3	1-85	100	100	1-8	B9A	P
EF91	412 361 500		6	2	250	250	10	7-65	100	PenLF	5	B7G	P
EF92	412 361 500		6	2-5	250	200	8	2-5	100	PenLF	2-5	B7G	P
EF93	412 365 100		6	1	250	100	11-6	4-5	150	100	4	B7G	P
EF95	412 365 100		6	2-3	150	150	7	4-3	100	100	4	B7G	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
EH1	023 145 560	G <sub>1</sub>	6	2	250	80	3	1.8	200	75	1.8	8SC	P
EH2	023 115 560	G <sub>1</sub>	6	3	250	100	4.2	1.4	100	100	1.4	8SC	P
EK1	123 174 560	G <sub>1</sub>	6	{ 1.5 8.5	90		2		80				
EK2	023 154 560	G <sub>1</sub>	6		250	75	1.6		100	75		8SC	O
EK3	023 164 560	G <sub>1</sub>	6	2	250	75	2.8	1.8	100	60	2.1	8SC	O
			6	2	100	60	11	3.8	100	60	3.8	8SC	O
EK32	026 545 310	G <sub>1</sub>	6	2.0	250	75	2.8	1.5	100	60	2.1	A08	O
EK90	412 366 100		6	2	100		11	7	100		5	B7G	H
ELL1	423 174 560		6	21.5	250	250	15	1.8	100	PenLF	1.8	8SC	PP
EL1	023 100 560	G <sub>1</sub>	6	18.5	250	250	32	2.6	100	PenLF	2.6	8SC	P
EL2	023 100 560	G <sub>1</sub>	6	18	250	250	32	2.8	100	PenLF	2.8	8SC	P
EL3	023 104 560		6	6	250	250	36	9	100	PenLF	9	8SC	P
EL5	023 104 560		6	14	250	275	72	8.5	100	PenLF	8.5	8SC	P
EL6	023 104 560		6	7	250	250	72	14.5	100	PenLF	10	8SC	P
EL11	602 301 450		6	6	250	250	36	9	100	150	7	F8	P
EL12	602 301 450		6	7	250	250	72	15	No Data Available			F8	P
EL20	265 104 130		6	34	300	300	12.5		100	100		B8B	P
EL22	265 004 130		6	7	250	250	44	9.5	100	PenLF	9	B8B	P
EL31	120 540 310	A	6	9	300	275	91	14	100	PenLF	10	A08	P
EL32	026 500 310	G <sub>1</sub>	6	18	250	250	32	2.8	100	PenLF	2.8	A08	P
EL33	026 540 310		6	6	250	250	36	9	100	PenLF	8	A08	P
EL34	126 540 310		6	14.5	250	250	67	9	100	100	9	A08	P
EL35	026 540 310		6	15.5	250	250	72	5	100	PenLF	5	A08	P
EL36	026 540 310		6	7	250	250	72	14.5	100	PenLF	10	A08	P
EL37	026 540 310		6	13.5	250	250	100	11	100	PenLF	10	A08	P
EL38	120 540 310	A	6	7	250	250	100	14.3	100	PenLF	10	A08	P
EL41	260 054 130		6	7.0	250	250	36	10.0	100	PenLF	8	B8A	P
EL42	261 054 130		6	10	225	225	26	3.2	100	PenLF	3.2	B8A	P
EL43	260 154 130		6	3	250	250	36	10	100	PenLF	8	B8A	P
EL44	200 154 130	A	6		250	250	20	5	100	PenLF	5	B8A	P
EL50	023 114 500	A	6	14	250	275	72	8.5	100	PenLF	8	8SC	P
EL51	023 104 500	A	6		400	300	44	7	100	150	7	8SC	P
EL53	023 104 560		6	7.7	400	250	24	8	100	150	7	8SC	P
EL54	023 104 560		6	12.2	300	300	55	13	No Data Available			8SC	P
EL60	216 005 413		6	14.5	250	250	67	9	100	100	8	B9G	P
EL70	412 163 510		6	9	100	100	31	2.2	100	90	2.2	M8	P
EL81	*41 23* *51	A	6	38.5	250	250	32.0	4.6	100	100	2.2	M8	P
EL83	541 231 600		6	5.5	250	250	36	10	100	150	9	B9A	P
EL84	041 230 605		6	7.5	250	250	49.5	11.3	100	150	10.0	B9A	P
EL85	441 231 615		6	10.8	225	225	26	3.2	100	150	3.2	B9A	P
EL90	412 365 400		6	12.5	250	250	45	4.1	100	150	4	B7G	P
EL91	412 360 500		6	12.4	250	250	16	2.6	100	PenLF	2.6	B7G	P
EL820	*41 23* *51	A	6	38.5	250	250	32.0	4.6	100	150	4.0	B9A	P
EL821	*41 23* 651		6	4.5	250	250	40	11	100	150	10	B9A	P
EL822	*41 23* 651		6	2.5	250	150	40	13	100	100	10	B9A	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
EQ80	541 236 114		6	1	250	20	0.95	0.7	No Data	Available		B9A	N
ER4	002 300 000	D <sub>1</sub>	4				3		D			B4	D
EW60	280 000 103		6				120		REC		30mA	B9G	R
EY51	023 000 000	D <sub>1</sub>	6						D			B3G	D
EY70	082 813 080		6				30		REC		17mA	M8	R
EY80	**1 23* **8		6				120		REC		40mA	B9A	R
EY84	**1 23* ***	D <sub>1</sub>	6				120		REC		30mA	B9A	R
EY86	230 232 032	D <sub>1</sub>	6						D			B9G	R
EY91	812 380 000		6				60		REC		20mA	B7G	R
EZ1	023 180 090		6				30		REC		15mA	8SC	RR
EZ2	023 180 090		6				30		REC		15mA	8SC	RR
EZ3	023 180 090		6				60		REC		20mA	8SC	RR
EZ4	023 180 090		6				60		REC		20mA	8SC	RR
EZ11	902 300 180		6				30.0		REC		15mA	F8	RR
EZ12	902 300 180		6				60.0		REC		20mA	F8	RR
EZ22	208 009 130		6				60		REC		20mA	B8B	RR
EZ33	028 090 310		6				60		REC		20mA	A08	RR
EZ35	028 090 310		6				30		REC		15mA	A08	RR
EZ40	280 *09 130		6				30		REC		15mA	B8A	RR
EZ41	280 009 130		6				30.0		REC		15mA	B8A	RR
EZ80	801 230 900		6				30.0		REC		15mA	B9A	RR
EZ90	802 309 100		6				30		REC		15mA	B7G	RR
E4K	003 200 000	D <sub>1</sub>	4				60		REC		20mA	B5	R
E4L	003 200 000	D <sub>1</sub>	4				120		REC		30mA	B5	R
E235	642 300 000		2	12	200		18	3	100		3	B4	T
E405	642 300 000		4	32	250		20	2	100		2	B4	T
E406	642 300 000		4	34	250		8	2.3	100		2.3	B4	T
E406N	642 300 000		4	34	250		8	2.3	100		2.3	B4	T
E408	642 300 000		4	30	400		26	2	100		2	B4	T
E408N	642 300 000		4	36	400		30	2.7	100		2	B4	T
E409	642 310 000		4	16	200		12	1.3	100		1.3	B5	T
E409N	642 310 000		4	16	200		12	1.3	100		1.3	B5	T
E410	642 300 000		4	28	400		30	6	100		6	B4	T
E414	642 310 000		4	6	150		6.5	2	100		2	B5	T
E414	642 300 000		4	15	150		8	1.3	100		1.3	B4	T
E415	642 310 000		4	8	200		6	1.4	100		1.4	B5	T
E415	264 130 000		4	8	200		6	1.4	100		1.4	UX5	T
E420	642 300 000		4	18	150		11	1.6	100		1.6	B4	T
E422	642 300 000		4	16	250		12	5	100		5	B4	T
E424	642 310 000		4	3.5	200		6	2.4	100		2.4	B5	T
E424R	612 300 000	G <sub>1</sub>	4	5	200		6	1.6	100		1.6	B4	T
E424N	642 310 000		4	3.5	200		6	2.4	100		2.4	B5	T
E425	642 310 000		4	4.5	150		3	1	100		1	B5	T
E428	642 310 000		4	3.5	200			2.4	100		2.4	B5	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
E430	642 310 000		4	3	150		4	2	100		2	B5	T
E430N	642 310 000		4	15	200		15	3	100		3	B5	T
E435	642 310 000		4	1.5	200		3	3	100		3	B5	T
E438	642 310 000		4	2.5	200		0.3	1.5	100		1.5	B5	T
E441N	652 300 000	G <sub>1</sub>	4	0	100	0	1.7	1	100		1	B4	T
E442	542 310 000	A	4	1.3	200	60	1.5	0.9	200	60	0.9	B5	P
E442S	542 310 000	A	4	2	200	60	4	1	100	60	1	B5	P
E443H	642 350 000		4	15	250	250	36	2.8	100	PenLF	2.8	B5	P
E443N	642 350 000		4	40	400	200	30	1.9	100	100	1.9	B5	P
E444S	642 310 000	D <sub>1</sub>	4	3.5	200		6	2	100		2	B5	DT
E445	542 310 000	A	4	2	200	100	6	1	100	100	1	B5	P
E446	542 310 000	A	4	2	200	100	3	2.3	100	100	2.3	B5	P
E447	542 310 000	A	4	2	200	125	4.5	2.3	100	100	2.3	B5	P
E448	164 552 300	G <sub>1</sub>	4	1.5	200	100	3		100	100		C7	P
E449	165 452 300	G <sub>1</sub>	4	2	200	75	3	1.8	100	75	1.8	C7	P
E452T	542 310 000	A	4	2	200	100	3	2	100	100	2	B5	P
E452T	254 130 000	A	4	2	200	100	3	2	100	100	2	UX5	P
E453	045 231 600		4	15	250	250	24	2.5	100	PenLF	2.5	B7	P
E454	216 809 300	G <sub>1</sub>	4	3.5	200		3.5	1.6	100		1.6	UX7	DDT
E455	542 310 000	A	4	1.5	200	100	3	2	100	100	2	B5	P
E455	254 130 000	A	4	1.5	200	100	3	2	100	100	2	UX5	P
E462	542 310 000	A	4	2	200	100	3	2	100	100	2	B5	P
E463	045 231 600		4	22	250	250	36	2.7	100	PenLF	2.7	B7	P
E499	642 310 000		4	1.6	200		0.2	4	150		4	B5	T
E543	045 231 600		4	15	250	250	24	2.5	100	PenLF	2.5	B7	P
E646	020 080 310		26				120		REC		30mA	A08	R
E703	642 300 000		7.5	100	400		30	1	100		1	B5	T
E851	030 908 020		5				120		REC		30mA	A08	RR
E1137	366 446 622		6	2.3	250		32	16	No Data Available			B9G	T
E1148	020 000 310	G <sub>1</sub> , A	6	5.5	250		14	3.0	100		3.0	A08	T
E1192	021 450 310	A	6	11	250	150	30	3.5	100	100	3.5	A08	P
E1242	265 101 403		6		400	250	30	3	100	150	3	B9G	P
E1323	020 000 310	A G <sub>1</sub>	6	3	100		25	6.7	100		6	A08	T
E1413	265 024 300		1.4	1	90	75	3.5	0.9	80	75	0.9	B7G	P
E1478	642 300 000		4	1	100			6.9	100		6.0	B5	T
E1484	208 564 300		1.4	1	90	90	2.7	0.63	80	90	0.6	B7G	DP
E1489	241 657 143		6		350	250	21	3.9	100	100	3.9	B9G	PP
E1517	412 361 500		6	2.5	200	200	8	2.5	100	100	2.5	B7G	P
E1518	412 361 500		6	2	250	250	10	7.5	100	150	5	B7G	P
E1606	461 471 230		6	8	250		9	2.6	100		2.6	A08	TT
E1624	6*2 364 100		6	8.5	250		10.5	2.2	100		2.2	B7G	T
E1654	026 510 310	G <sub>1</sub>	6	1.5	200	200	10.9	8.5	100	150	8	A08	P
E1662	412 360 500		6	12	250	250	20	2.6	100	PenLF	2.6	B7G	P
E1677	002 300 000	D <sub>1</sub>	2				15		REC		10mA	B4	R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
E1678	026 510 310	G <sub>1</sub>	13	3	250	100	7.6	1.5	100	100	1.5	B7G	P
E1681	026 540 310		15	13	175	175	35	2.5	100	100	2.5	A08	P
E1682	020 800 310		30				120		REC		30mA	A08	R
E1706	256 041 463		6	8	250	175	80	13	100	100	10	B9G	P
E1709	064 471 230		6	2	250		2	1.35	150		1.3	A08	TT
E1733	009 **8 230		6				60		REC		20mA	B8B	RR
E1736	265 004 130		6	4.4	250	250	40	10.5	100	PenLF	10.0	B8B	P
E1740	209 008 130		6				30		REC		15mA	B8B	RR
E1751	192 310 800		6				5		D			B7G	RR
E1780	009 **8 230		4				30		REC		15mA	B8B	RR
E1787C	316 541 120		6	9	250	175	50	8	100	100	8	B9G	P
E1794	265 104 130		19	3	250	75	2.5	2.8	100	60	2.8	B8B	P
E1795	280 008 130		50				120		REC		30mA	B8B	R
E1796	265 004 130		80	9.5	175	175	70	10	100	100	9	B8B	P
E1809	265 104 136		6	3	250	100	8	2.8	100	100	2.8	B8B	P
E1813	264 198 130	G <sub>1</sub>	19	3	250		1	1.2	100		1.2	B8B	DDT
E1816	364 526 300		1.4	7	90	75	7.4	1.575	80	60	1.5	B7G	P
E1835	005 231 600		13	4.4	250	250	40	10.5	100	PenLF	9	B7	P
E1838	264 198 130		6	3	250		1	1.2	100		1.2	B8B	DDT
E1848	264 *98 130		6	2	200		10	1.4	200		1.4	B8B	DDT
E1884	002 300 000	D <sub>1</sub>	2				5		D			B4	R
E1912	412 389 600		6	3	250		1	1.2	100		1.2	B7G	DDT
E1935	241 657 143		6	26	250	200	30	3.9	100	100	3.9	B9G	PP
E1938	802 309 100		6				30		REC		15mA	B7G	RR
E1969	542 376 400		6	$\begin{cases} 2 \\ 1 \end{cases}$	$\begin{cases} 100 \\ 250 \end{cases}$	$\begin{cases} \\ 75 \end{cases}$	$\begin{cases} 5 \\ 5.3 \end{cases}$	$\begin{cases} 2.2 \\ 2.2 \end{cases}$	$\begin{cases} 100 \\ 250 \end{cases}$	$\begin{cases} \\ 75 \end{cases}$	$\begin{cases} 2.8 \\ \\ \end{cases}$	B7G	TH
E1976	412 361 500		19	2.5	200	200	8	2.5	100	150	2.5	B7G	P
E1984	412 36* 500		6	5.5	250	250	35	10	100	PenLF	9	B7G	P
E1985	281 008 300		40				60		REC		20mA	B7G	R
E1987	412 36* 500		40	8	175	150	50	10	100	100	9	B7G	P
E1994	471 461 230	D <sub>1</sub>	13	8	250			2.6	100		2.6	A08	TT
E2004	*2* 0*0 3*0		1.25				5		D			A08	R
E2020N	642 310 000		20	18	200		15	1.6	100		1.6	B5	T
E2047	412 361 500		12.5	2.5	200	200	8	2.5	200	200	2.5	B7G	P
E2122	902 308 100		6				30		Rec		15mA	B7G	RR
E2128	241 657 143		19	16.5	250	150	30	3.9	100	100	3.9	B9G	PP
E2134	412 36* 500		6		175	175	55	9.5	100	100	7	B7G	P
E2153	412 36* 500		13	8	175	150	50	10	100	100	9	B7G	P
E2178	**1 23* **8		20				120		REC		38mA	B9A	R
E2179	*41 23* *51	A	20	12	150	150	50	8.5	100	100	7	B9A	P
E2185	026 040 310		6	8	250		9	2.6	100		2.6	A08	T
E2223	*** 23* **8		25				120		REC		30mA	B9A	R
E2256	**1 23* **8		20				120		REC		40mA	B9A	R
E2382	021 *4* 350	A	52		150	150	100	16	No data available			A08	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
FC2	265 230 700	G <sub>1</sub>	2	{ 0 0	150 150	50 75	2.0 0.95	0.2	150 150	60 75		B7	O
FC2A	645 230 700	G <sub>1</sub>	2	{ 0 0	150 150	50 50	2.1 0.7	.27	150 150	60 60		B7	O
FC4	645 231 700	G <sub>1</sub>	4	{ 4 4	90 250	90 90	2.0 1.6	1 1	100 250	90 90	1.3 1.5	B7	O
FC13	023 164 570	G <sub>1</sub>	13	{ 3 2	90 200	75 75	2 2.6	1.3 0.6	80 200	75 75		8SC	O
FC13c	645 231 700	G <sub>1</sub>	13	{ 3 2	90 200	75 75	2.0 2.6	1.3 0.6	80 200	75 75	1.2 0.6	B7	O
FC141	207 640 530	G <sub>1</sub>	1.4		90	90	0.55		80	90		M08	H
FH2118	165 452 300	G <sub>1</sub>	20	2	200	80	3		100	75		C7	P
FW1	893 200 000		4				30		REC		15mA	B4	RR
FW3	892 300 000		4				60		REC		20mA	B4	RR
FW4/500	982 300 000		4				120		REC		30mA	B5	RR
FW4/800	982 300 000		4			60			REC		20mA	B5	RR
FY	642 350 000		4	10	250	250	32	5	100	PenLF	5	B5	P
FZ1	023 180 090		13				30		REC		15mA	8SC	RR
F5	642 300 000		4	40	300		40	6	100		6	B4	T
F10	642 300 000		4	15	300		30	5.5	100		5.5	B4	T
F100	642 350 000		4	16	250	250	42	2.5	100	PenLF	2.5	B5	P
F203	642 300 000		2.5	5.6	275		36	2	150		2	B4	T
F209(A)	642 310 000		2.5	21	250		5	1	100		1	B5	T
F215	264 130 000		2.5	6	150		6.5	2	100		2	UX5	T
F215	642 310 000		2.5	6	150		6.5	2	100		2	B5	T
F242	265 130 000	G <sub>1</sub>	2.5	1.3	200	100	1.5	0.9	200	100	0.9	UX5	P
F410	642 300 000		4	15	275		13.5	2.8	100		2.8	B4	T
F443	642 350 000		4	30	400	200	45	3.2	100	100	3.2	B5	P
F443N	642 350 000		4	30	400	200	45	3.2	100	100	3.2	B5	P
F460	642 310 000		4	2	250		10	5.5	200		5.5	B5	T
F704	642 300 000		7.5	84	400		55	2.1	100		2.1	B5	T
F707	642 300 000		7.5	84	400		55	2.1	100		2.1	B4	T
F707	264 300 000		7.5	84	400		55	2.1	100		2.1	UX4	T
F708	264 300 000		7.5		400		30	1.6	100		1.6	UX4	T
G84	280 300 000		2.5				60		REC		20mA	UX4	R
G4100	802 300 000		4				120		REC		30mA	B4	R
G4150	892 300 000		4				60		REC		20mA	B4	RR
GR4	892 300 000		4				120		REC		30mA	B4	RR
GT1C	642 310 000		4		200		48	3KΩ	No Data Available			B5	Thyratron
GZ30	020 908 030		5				60		REC		20mA	A08	RR
GZ31	620 908 030		5				120		REC		30mA	A08	RR
GZ32	030 809 020		5				60		REC		20mA	A08	RR
GZ33	030 809 020		5				120		REC		30mA	A08	RR
GZ40	28* **9 130		5				30		REC		17mA	B8A	RR
GZ41	28* **9 130		5				60		REC		26mA	B8A	RR

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
HAD	908 231 600	G <sub>1</sub>	13	2.5	200		3.3	2	150		2	B7	DDT
HBC90	412 389 600		12.5	3	250		1.0	1.2	100		1.2	B7G	DDT
HBC91	412 398 600		12.5	2	250		1.2	1.6	100		1.6	B7G	DDT
HD2	642 300 000		2	5	200		5	1	150		1	B4	T
HD14	036 080 200	G <sub>1</sub>	2	0	90		0.06	0.36	100		0.28	A08	DT
HD21	682 390 000	G <sub>1</sub>	2	1.5	150		1.8	1.5	150		1.5	B4	DDT
HD22	682 390 000	G <sub>1</sub>	2	3	150		1.8	1.5	100		1.5	B5	DDT
HD23	682 390 000	G <sub>1</sub>	2	3	250		1	1.4	125		1.4	B5	DDT
HD24	682 390 000	G <sub>1</sub>	2	1.5	150		2.7	1.4	125		1.4	B5	DDT
HF93	412 365 100		12.5	1	250	100	11	4.4	100	100	4	B7G	P
HF121	26* 054 103		12.5	3	200	125	7.2	2.3	100	100	2	B8A	P
HK90	412 366 100		12.5	2	100		11	7	100		5	B7G	H
HLA1	642 310 000		4	1	200		5	8	200		7	B5	T
HLA2	642 310 000		4	2.5	200		6	5.5	150		5.5	B5	T
HLB1	642 300 000		2	3	150		2	1.5	100		1.5	B5	T
HL/DD1320	809 231 600	G <sub>1</sub>	13	3	200		4.3	1.9	150		1.9	B7	DDT
HL2	642 300 000		2	1.5	150		2.2	1.5	150		1.5	B4	T
HL2	023 004 060		2	1.5	150		2.2	1.5	150		1.5	8SC	T
HL2K	642 300 000		2	1.5	150		2.2	1.5	150		1.5	B4	T
HL2S	023 004 060		2	1.5	150		2.2	1.5	150		1.5	8SC	T
HL3	206 040 030		2	1.5	125		0.5	1.5	125		1.5	M08	T
HL4	642 310 000		4	4.5	250		5	3.5	150		3.5	B5	T
HL4g	000 231 600	G <sub>1</sub>	4	4.5	250		5	3.5	150		3.5	B7	T
HL4gs	023 100 060	G <sub>1</sub>	4	4.5	250		5	3.5	150		3.5	8SC	T
HL13	023 100 060	G <sub>1</sub>	13	3.7	200		5	3.3	150		3	8SC	T
HL13	000 231 600	G <sub>1</sub>	13	2.75	200		6	3.5	150		3.5	B7	T
HL13c	000 231 600	G <sub>1</sub>	13	2.7	200		5	3.3	150		3.3	B7	T
HL13g	023 004 060	G <sub>1</sub>	13	5.5	250		6	2.5	150		2.5	8SC	T
HL13s	023 100 060	G <sub>1</sub>	13	3	200		6	3.5	150		3.5	8SC	T
HL21	642 300 000		2	3	150		1.75	1.5	125		1.5	B4	T
HL21DD	682 390 000	G <sub>1</sub>	2	2	150		2	1.3	125		1.3	B5	DDT
HL22	020 604 030		2	2	150		2	1.3	125		1.3	M08	T
HL22DD	206 080 930	G <sub>1</sub>	2	2	150		2	1.3	125		1.3	M08	DDT
HL23	206 040 030		2	2.4	150		1.5	1.2	125		1.2	M08	T
HL23DD	206 080 930	G <sub>1</sub>	2	2.8	150		1.5	1.05	125		1.2	M08	DDT
HL41	216 040 030		4	4.5	250		7	3.1	150		3.1	M08	T
HL41DD	216 090 830	G <sub>1</sub>	4	5.2	250		6	2.2	250		2.2	M08	DDT
HL42DD	216 090 830	G <sub>1</sub>	4	5	200		7.5	2.5	200		1.85	M08	DDT
HL92	142 345 600		50	7.5	125	125	49	7.5	100	100	7	B7G	P
HL133	216 000 030	G <sub>1</sub>	13	3.3	200		6	2.9	200		2.9	M08	T
HL133DD	216 090 830	G <sub>1</sub>	13	5.4	250		6	2.3	150		2.3	M08	DDT
HL134DD	216 080 930	G <sub>1</sub>	13	5	250		7	2.5	100		2.5	M08	DDT
HL135	023 100 060	G <sub>1</sub>	13	3	200		6	3.5	150		3.5	8SC	T
HL210	642 300 000		2	1	100			0.7	100		0.7	B4	T
HL607	642 300 000		6	1	100			1	100		1	B4	T



VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
HL1320	000 231 600	G <sub>1</sub>	13	3.3	200		6	3	150		3	B7	T
HP2	446 230 700		2	1	125		8.5		125			B7	TT
HP6	412 361 500		6	2	250	250	10	7.5	150	200	6.5	B7G	P
HP13	061 231 500	G <sub>1</sub>	13	1	250	100	8	3.5	250	100	3.5	B7	P
HP13s	023 110 560	G <sub>1</sub>	13	1	250	100	8	3.5	250	100	3.5	8SC	P
HP210	542 300 000	A	2	1.5	150	150	1.9	1.9	150	150	1.9	B4	P
HP210	041 230 500	A	2	1.5	150	150	1.9	1.9	150	150	1.9	B7	P
HP210C	041 230 500	A	2	1	150	150	1.9	1.9	150	150	1.9	B7	P
HP210nc	542 300 000	A	2	1	150	150	1.9	1.9	150	150	1.9	B4	P
HP210nc	041 230 500	A	2	1	150	150	1.9	1.9	150	150	1.9	B7	P
HP211C	041 230 500	A	2	1	150	150	2.6	1.7	150	150	1.7	B7	P
HP211c	542 300 000	A	2	1	150	150	2.6	1.7	150	150	1.7	B4	P
HP211	041 230 500	A	2	1	150	150	2.6	1.7	150	150	1.7	B7	P
HP215	542 300 000	A	2	1.5	150	80	1.5	1.2	150	75	1.2	B4	P
HP215	041 230 500	A	2	1.5	150	80	1.5	1.2	150	75	1.2	B7	P
HP415	041 231 500	A	4	2	250	100	8	2.7	100	100	2.7	B7	P
HP1018	160 152 300	G <sub>1</sub>	10		250	150	2.3	1.25	100	PenLF	1.25	C7	P
HP1118	160 152 300	G <sub>1</sub>	10	3	250	150	10.5	1.65	100	100	1.65	C7	P
HP2018	041 231 500	A	20	2	200	100	4	3.5	200	100	3.5	B7	P
HP2018	542 310 000	A	20	2	200	100	4	3.5	100	100	3.5	B5	P
HP2118	041 230 500	A	20	2	200	100	5	3.5	100	100	3.5	B7	P
HP2118	542 310 000	A	20	2	200	100	5	3.5	100	100	3.5	B5	P
HP4100	542 310 000	A	4	2	200	100	3	3.5	100	100	3.5	B5	P
HP4101	041 231 500	A	4	2	200	100	3.5	3.5	100	100	3.5	B7	P
HP4101	542 310 000	A	4	2	200	100	3.5	3.5	100	100	3.5	B5	P
HP4101c	542 310 000	A	4	2	200	100	3.5	2.8	100	100	2.8	B5	P
HP4101c	041 231 500	A	4	2	200	100	3.5	2.8	100	100	2.8	B7	P
HP4105	542 310 000	A	4	2	250	100	4.5	3	100	100	3	B5	P
HP4105	041 231 500	A	4	2	250	100	4.5	3	100	100	3	B7	P
HP4106	041 231 500	A	4	2	200	100	5	3.5	100	100	3.5	B7	P
HP4106	542 310 000	A	4	2	200	100	5	3.5	100	100	3.5	B5	P
HP4106C	041 231 500	A	4		200	100	5	3.5	100	100	3.5	B7	P
HP4106C	542 310 000	A	4		200	100	5	3.5	100	100	3.5	B5	P
HP4115	041 231 500	A	4	2	200	100	4.3	3.2	100	100	3.2	B7	P
HP4115	542 310 000	A	4	2	200	100	4.3	3.2	100	100	3.2	B5	P
HP4115c	542 310 000	A	4	2	250	100	4.5	3.2	100	100	3.2	B5	P
HP4115c	041 231 500	A	4	2	250	100	4.5	3.2	100	100	3.2	B7	P
HR1	2** 3** *00	A	6						D			B7G	R
HR2	112 311 100	D <sub>1</sub>	4				5		D			B7G	R
HR2	642 300 000		2	2	150		1.2	0.6	125		0.6	B4	T
HR2S	023 004 060		2	2	150		1.2	0.6	125		0.6	8SC	T
HR3	112 311 100	D <sub>1</sub>	4				15		REC		10mA	B7G	R
HR4	112 311 100	D <sub>1</sub>	4				30		REC		15mA	B7G	R
HR5	112 311 100	D <sub>1</sub>	4				30		REC		15mA	B7G	R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
HR6	112 311 100	D <sub>1</sub>	4				60		REC		20mA	B7G	R
HR7	020 000 030	D <sub>1</sub>	4				30		REC		15mA	A08	R
HR8	030 000 020	D <sub>1</sub>	4				30		REC		15mA	A08	R
HR210	642 300 000		2	1.5	200		1	1.3	150		1.3	B4	T
HR406	642 300 000		4	3	200		1	1.5	150		1.5	B4	T
HR410	642 300 000		4	3	200		1	1.5	150		1.5	B4	T
HSD	809 231 600	G <sub>1</sub>	13	3	200		4.6	2.3	150		2.3	B7	DDT
HVR1	002 300 000	D <sub>1</sub>	2				5		D			B4	R
HVR2	003 200 000	D <sub>1</sub>	4				3		D			B4	R
HVR2A	003 200 000	D <sub>1</sub>	2				3		D			B4	R
HVUI	002 300 000	D <sub>1</sub>	4				3		D			B4	R
HY24	264 300 000		2	45	175		20		100			UX4	T
HY65	030 540 210	A <sub>1</sub>	6	45	350	200	63		100	100		A08	P
HY90	002 383 100		35				60		REC		20mA	B7G	R
HY113	264 030 000		1.4	4.5	50		0.4	0.25	No Data Available			UX5	T
HY115	364 520 000		1.4	1.5	50	20	0.03	0.06	No Data Available			UX5	P
HY125	364 520 000		1.4	3	50	50	0.9		No Data Available			UX5	P
HY615	020 000 310	A <sub>1</sub> G <sub>1</sub>	6	35	300		20		100			A08	T
HY866	280 300 000		2.5				120		REC		30mA	UX4	R
HZ50	280 300 000		13				60		REC		20mA	UX4	R
H2	642 300 000		2	1	150		2.5	0.8	150		0.8	B4	T
H4D	809 231 600	G <sub>1</sub>	4	2.5	200		5.5	2.7	150		2.7	B7	DDT
H12	642 300 000		2	1.5	100		0.6	1.2	100		1.2	Sm4	T
H13	023 100 060	G <sub>1</sub>	13	4	200		6	2.5	100		2.5	A08	T
H20	642 310 000		20	1.6	200		0.2	1.0	100		1.0	B5	T
H30	000 231 600	G <sub>1</sub>	13	1.5	250		7.5	6.0	200		6	B7	T
H42	000 231 600	G <sub>1</sub>	4	2	250		1	1.7	200		1.7	B7	T
H63	020 600 310	G <sub>1</sub>	6	2	250		1	1.5	200		1.5	A08	T
HI41D	206 080 030	G <sub>1</sub>	1.4	1	90		0.1	0.25	80		0.25	M08	DT
H210	642 300 000		2	3	150		1.1	1.15	100		1.15	B4	T
H607	642 300 000		6	1	100			0.45	100		0.45	B4	T
IRV120/350s	023 180 090		4				60		REC		20mA	8SC	RR
IW2	893 200 000		4				30		REC		15mA	B4	RR
IW3	892 300 000		4				60		Rec		20mA	B4	RR
IW4/350	892 300 000		4				60		REC		20mA	B4	RR
IW4/500	893 200 000		4				60		REC		20mA	B4	RR
KBC1	023 098 060	G <sub>1</sub>	2	4.5	150		2.5	1.0	100		1	8SC	DDT
KBC32	036 980 200	G <sub>1</sub>	2	1	100		2.4	1.2	100		1.2	A08	DDT
KCF30	037 546 200	G <sub>1</sub>	2	1.0	100	0	3.7	1.6	100	60	1.7		
				2.5	125	80	1.5	0.9	100	75	0.9	A08	TP
					75		3	1.7	80		1.7	8SC	TH
KCHI	023 064 570	G <sub>1</sub>	2	5	150	60	1		100	60			
KCI	023 004 060		2	1.5	150		1.2	0.6	125		0.6	8SC	T
KC3	023 004 060		2	2.8	150		3	2.5	100		2.5	8SC	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
KC4	023 004 060		2	1.5	150		2.2	1.4	125		1.4	8SC	T
KC50	642 300 000		2	1	40		0.25	0.4	No Data Available			Sm4	T
KC51	642 300 000		2	2	40		1.25	0.5	No Data Available			Sm4	T
KDDI	023 074 460		2	0	90		0.8		80			8SC	TT
KD50	642 300 000		2	2.8	40		1.8	0.56	No Data Available			Sm4	T
KE50	542 300 000	A	2	2	125	50	0.8	0.56	100	60	0.56	Sm4	P
KFI	050 412 300	A	2	1	125	150	3	1.8	125	150	1.8	C7	P
KF2	050 412 300	A	2	1	125	150	3	1.3	125	150	1.3	C7	P
KF3	023 010 560	G <sub>1</sub>	2	1	90	90	1	0.5	80	90	0.5	8SC	P
KF4	023 010 560	G <sub>1</sub>	2	1	90	90	1.2	0.7	80	90	0.7	8SC	P
KF7	023 004 500	A	2	1.5	90	90	1.8	0.7	80	90	0.7	8SC	P
KF8	023 004 500	A	2	1	90	90	1.5	0.6	80	90	0.6	8SC	P
KF35	026 510 300	G <sub>1</sub>	2	1.5	125	60	1.45	1.08	125	60	1.08	A08	P
KHI	023 051 560	G <sub>1</sub>	2	1.5	125	60		1.4	125	60	1.4	8SC	P
KK2	023 064 560	G <sub>1</sub>	2	1	90	50	2		80	60		8SC	O
KK32	037 546 200	G <sub>1</sub>	2.0	{ 0 0	150	50	2.1		150	60	2.1	A08	O
					150	50	0.7		150	60	0.7		
KLL3	423 564 570		2	12	150	150	8		100	100		8SC	PP
KLL32	026 447 350		2	11.3	125	150	3.8	2.6	100	100	2.6	A08	PP
KLI	642 350 000		2	4.5	90	90	8	1.7	80	75	1.7	B5	P
KLI	032 004 560		2	4.5	90	90	8	1.7	80	75	1.7	8SC	P
KL2	023 004 560		2	7.5	90	90	11	1.8	80	75	1.8	8SC	P
KL4	023 004 560		2	2.5	90	90	4.7	1.8	80	75	2.8	8SC	P
KL5	032 004 560		2	4	90	90	4.8	1.4	80	75	1.4	8SC	P
KL35	036 540 200		2	4.5	125	150	5.6	2.2	100	100	2.2	A08	P
KR5	264 530 000		6	9	150	150	14	1.9	100	100	1.9	UX5	P
KR20	264 413 000		2.5	0	250		3.5	1.4	250		1.4	UX6	T
KR22	264 413 000		6	0	250		3.5	1.4	250		1.4	UX6	T
KR25	265 413 000		2.5	16.5	250	250	34	2.2	100	PenLF	2.2	UX6	P
KR28	289 130 000		6				30		REC		15mA	UX5	RR
KR31	281 300 000		10				120		REC		30mA	UX4	R
KTW61	026 510 310	G <sub>1</sub>	6	3	250	100	10	2.9	100	90	2.9	A08	P
KTW62	026 500 310	G <sub>1</sub>	6	3	250	100	8	2.85	100	100	2.8	A08	P
KTW63	026 510 310	G <sub>1</sub>	6	3	250	100	7.6	1.5	100	90	1.5	A08	P
KTW73	026 510 310	G <sub>1</sub>	6	3	250	100	6.5	1.7	100	90	1.7	A08	P
KTW74	026 500 310	G <sub>1</sub>	13	3	250	100	6.5	1.7	100	90	1.7	A08	P
KTZ41	061 231 500	G <sub>1</sub>	4	1.5	250	250	18	12	200	200	10	B7	P
KTZ63	026 500 310	G <sub>1</sub>	6	2	250	100	1	1.23	100	100	1.2	A08	P
KTZ73	026 500 310	G <sub>1</sub>	6	3	250	100	2	1.5	100	90	1.5	A08	P
KT2	642 350 000		2	4.5	150	150	7.5	2.5	100	100	2.5	B5	P
KT8	542 310 000	A	6	16	250	250	72	6	100	100	6	B5	P
KT8C	542 310 000	A	6	16	250	250	72	6	100	PenLF	6	B5	P
KT21	642 350 000		2	2.5	150	125	5.3	5.3	100	100	5.3	B5	P
KT24	642 350 000		2	2.8	150	150	10	3.2	100	100	3.2	B5	P
KT30	045 231 600		13	12	250	250	40	3.9	100	PenLF	3.9	B7	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
KT31	305 221 600	G <sub>1</sub>	13	4	200	175	40	10	100	150	9	B7	P
KT32	026 540 310		26	7.6	125	150	75	9	100	100	8	A08	P
KT33	026 540 310		26	13.2	200	200	60	10	100	100	9	A08	P
KT33c	326 540 210		13	7	175	175	92	10	100	100	9	A08	P
KT35	326 540 210		13	11.5	200	200	50	10	100	100	9	A08	P
KT36	020 540 310	A	26	10.0	150	150	60	11.0	100	100	10.0	A08	P
KT41	045 231 600		4	4.4	250	250	40	10.5	100	PenLF	9	B7	P
KT42	045 231 600		4	16.5	250	250	34	2.5	100	PenLF	2.5	B7	P
KT44	041 231 500		4	15	250	250	85	6.25	100	PenLF	6.2	B7	P
KT45	041 231 500		4	15	250	250	85	6.3	100	PenLF	6.0	B7	P
KT55	*26 540 310		52	15	150	150	88.0	16	No Data Available			A08	P
KT61	026 540 310		6	4.4	250	250	40	10.5	100	PenLF	9	A08	P
KT63	026 540 310		6	16.5	250	250	34	2.5	100	PenLF	2.5	A08	P
KT66	026 540 310		6	15	250	250	85	6.3	100	PenLF	6.0	A08	P
KT67	256 001 403		6	9	250	175	80	13	100	100	10	B9G	P
KT71	026 540 310		48	9.8	175	175	70	10	100	100	9	A08	P
KT72	026 540 310		16	12.5	175	175	30	2.5	100	100	2.5	A08	P
KT73	026 540 310		6	12.5	175	175	35	2.5	100	100	2.5	A08	P
KT74	026 540 310		16	12.5	175	175	30	2.5	100	100	2.5	A08	P
KT76	026 540 310		15	13	175	175	35	2.5	100	100	2.5	A08	P
KT81	265 004 130		6	4.4	250	250	40	10.5	100	PenLF	9	B8B	P
KT101	265 004 130		80	9.5	175	175	70	10	100	100	9	B8B	P
K4	892 300 000		4				120		REC		30mA	B4	RR
K23A	682 390 000		2	5.5	150		2.5	1.4	100		1.4	B5	DDT
K23B	682 390 000		2	1.5	150		1.4	1.2	150		1.2	B5	DDT
K24	265 130 000	G <sub>1</sub>	2.5	1.5	175	75	2	0.8	100	75	0.8	UX5	P
K27	264 130 000		2.5	4.5	90		3	1	80		1	UX5	T
K30A	642 300 000		2	3	150		1.5	0.8	150		0.8	B4	T
K30B	642 300 000		2	7.5	150		4	0.9	100		0.9	B4	T
K30C	642 300 000		2	1.5	150		2	1.4	100		1.4	B4	T
K30D	642 300 000		2	3	150		4	1.5	100		1.5	B4	T
K30E	642 300 000		2	4.5	150		2	1.5	100		1.5	B4	T
K30g	642 300 000		2	7	150		6	3.5	100		3.5	B4	T
K30K	642 300 000		2	1.5	150		2.2	1.4	100		1.4	B4	T
K33A	064 234 700		2	0	150		3		150			B7	TT
K33B	446 230 700	A	2	1.5	125		3	2.1	125		2.1	B7	TT
K40B	542 300 000		2	0	150	75	2	1.5	100	75	1.5	B4	P
K40N	542 300 000		2	0	150	90	2.5	1.4	100	90	1.4	B4	P
K40N	041 230 500		2	0	150	90	2.5	1.4	100	90	1.4	B7	P
K50M	041 231 500		2	5	125	125	3	1.5	100	100	1.5	B7	P
K50N	064 235 500	G <sub>1</sub>	2	1.5	125	60	2	1.4	125	60	1.4	B7	P
K70B	642 350 000		2	4.5	150	150	9.5	2.5	100	100	2.5	B5	P
K70D	642 350 000		2	2.4	125	150	5	4	100	100	4	B5	P
K77A	465 230 574		2	10.5	125	150	2.5	4	100	100	4	B9	PP
K450/50	642 300 000		4	50	400		120	5	100		5	B4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
LA	364 520 000		6	12	175	175	22	2.2	100	100	2.2	UX5	P
LD210	642 300 000		2	4.5	150		3	1.3	125		1.3	B4	T
LD410	642 300 000		4	6	200		4	1.8	100		1.8	B4	T
LG5	218 090 130		6				120		REC		30mA	A08	RR
LG14	123 000 000	D <sub>1</sub>	6				5		D			B3G	R
LL2	642 300 000		2	2.5	150		3	2.6	125		2.6	B4	T
LL2s	023 004 060		2	2.5	150		3	2.6	125		2.6	8SC	T
LL4	642 310 000		4	10	350		18	3.5	125		3.5	B5	T
LN152	641 237 154		6	2.3	100	200	4.0	1.4	100	60	1.4	B9A	TP
				8.0	200		15.0	3.2	100	100	3.0		
LN309	641 237 154		12.5	8.5	250				100	60	2.0		
				8.0	175	175	10.5	2.2	100	100	4.0	B9A	TP
LP2	642 300 000		2	4.5	150		10	3.6	100		3.6	B4	T
LP4	642 300 000		4	36	250		48	5.5	100		5.5	B4	T
LP220	642 300 000		2	4.5	150		5	3.5	100		3.5	B4	T
LZ319	645 237 154		9	2.0	100		14	5	100	60	5.0	B9A	TP
				2.0	175	175	10	6	100	100	6.0		
L2	642 300 000		2	3.8	150		4	1.5	125		1.5	B4	T
L2D	642 310 000		2	4.5	150		2	1.5	100		1.5	B5	T
L2/DD	682 390 000	G <sub>1</sub>	2	3.8	150		4	1.6	100		1.6	B5	DDT
L4	642 300 000		4	16	250		20	3.2	100		3.2	B4	T
L11	642 300 000		1	12	100		2.8	0.57	100		0.57	B4	T
L12	642 300 000		2	3	40		2.2	0.8	No Data Available			Sm4	T
L21	642 300 000		2	6	150		2.2	1.8	100		1.8	B4	T
L21DD	682 390 000	G <sub>1</sub>	2	6	150		2.2	1.8	100		1.8	B5	DDT
L22DD	206 080 930	G <sub>1</sub>	2	42	150		4	1.55	100		1.55	A08	DDT
L30	040 231 600		13	8	200		25	4.2	100		4.2	B7	T
L63	026 040 310		6	8	250		9	2.6	100		2.6	A08	T
L77	6*2 364 100		6	8.5	250		10.5	2.2	100		2.2	B7G	T
L210	642 300 000		2	6	150		4.2	1.6	100		1.6	B4	T
L408	642 300 000		4	3	150		5	1.5	125		1.5	B4	T
L412	642 300 000		4	1.5	200		3	1.2	200		1.2	B4	T
L414	642 300 000		4	8	150		12	2.8	100		2.8	B4	T
L415	642 300 000		4	10	200		8	2	100		2	B4	T
L486D	642 350 000		4	15	250	250	35	2.7	100	PenLF	2.7	B5	P
ME2	642 350 000		2	12	200	200	13		100	100		B5	P
ME25	642 350 000		4	30	400	300	60		100	100		B5	P
MHD4	908 231 600	G <sub>1</sub>	4	4	250		4	2.2	150		2.2	B7	DDT
MHL4	642 310 000		4	8	250		8	2.5	100		2.5	B5	T
MHLD6	026 890 310	G <sub>1</sub>	6	5	200		11.5	3	100		3	A08	DDT
MH4	642 310 000		4	4	250		5	3.6	150		3.6	B5	T
MH40	642 310 000		4	3	200		2.7	2.4	100		2.4	B5	T
MH41	642 310 000		4	1.5	200		5.2	6	200		6	B5	T
MH206	645 230 600	G <sub>1</sub>	2	3	150	75	3.2		100	75		B7	H

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
MH1118	426 510 310	G <sub>1</sub>	10	3	200	100	3.5		100	90		A08	P
MH4105	645 231 700	G <sub>1</sub>	4	3	200	100	7.5		100	100		B7	H
MKT4	045 231 600		4	11	250	200	32	3	100	100	3	B7	P
MKT4	642 310 000	S	4	11	250	200	32	3	100	100	3	B5	P
ML4	642 310 000		4	16	250		14	4.2	100		4.2	B5	T
ML6	642 310 000		6	8	200		24	3.8	100		3.8	B5	T
ML40	642 310 000		4	3	200			3	100		3	B5	T
MM4V	542 310 000	A	4	1.5	200	125	6	2.5	100	100	2.5	B5	P
MM20	542 310 000	A	20	0	200	100	6	3.5	100	100	3.5	B5	P
MO465	645 231 700	G <sub>1</sub>	4	1.5	75 250	75	2 1.6		80 100	75		B7	O
MO495	123 174 560	G <sub>1</sub>	4	1.5 8.5	90 250		2 1.6		80 100			8SC	O
MP Pen	045 231 600		4	16	250	250	30	3.5	100	PenLF	3.5	B7	P
MP Pen	642 310 000	S	4	16	250	250	30	3.5	100	150	3.5	B5	P
MPT4	045 231 600		4	9	250	200	32	3	100	PenLF	3	B7	P
MPT4	642 310 000	S	4	9	250	200	32	3	100	PenLF	3	B5	P
MP2	642 300 000		2	12	150		12.5	3	100		3	B4	T
MP4	067 231 500	G <sub>1</sub>	4		250	150	8	2.5	100	100	2.5	B7	PP
MR1	802 300 000		4				120		REC		30mA	B4	R
MR4	642 300 000		4	3	200		6	2.5	150		2.5	B4	T
MSG/HA	542 310 000	A	4	1.5	200	80	2.1	2	100	75	2	B5	P
MSG/LA	542 310 000	A	4	1.5	200	75	5.2	3.75	100	75	3.75	B5	P
MS/Pen	041 231 500	A	4	1.5	200	100	4.8	2.8	100	100	2.8	B7	P
MS/Pen	542 310 000	A	4	1.5	200	100	4.8	2.8	100	100	2.8	B5	P
MS/PenA	542 310 000	A	4	2.5	200	150	9.0	4.0	100	150	4.0	B5	P
MS/PenA	041 231 500	A	4	2.5	200	150	9	4	100	150	4	B7	P
MS/PenB	061 231 500	G <sub>1</sub>	4	1.5	200	100	4.8	2.8	100	100	2.8	B7	P
MS/PenT	041 231 500	A	4	1.5	200	100	4.8	2.8	100	100	2.8	B7	P
MS/PenT	542 310 000	A	4	1.5	200	100	4.8	2.8	100	100	2.8	B5	P
MSP4	041 231 500	A	4	1.5	200	75	2.4	1.1	100	75	1.1	B7	P
MSP4	542 310 000	A	4	1.5	200	75	2.4	1.1	100	75	1.1	B5	P
MSP4I	542 310 000	A	4	4	250	250	8.5	3.2	100	PenLF	3.2	B5	P
MSP4I	041 231 500	A	4	4	250	250	8.5	3.2	100	PenLF	3.2	B7	P
MS4	542 310 000	A	4	1.5	250	75	2.4	1.1	250	75	1.1	B5	P
MS4B	542 310 000	A	4	1	200	75	3.4	3.2	200	75	3.2	B5	P
MUI	002 300 000	D <sub>1</sub>	4				60		REC		20mA	B4	R
MU2	002 300 000	D <sub>1</sub>	2				5		D			B4	R
MUI2	892 300 000		4				60		REC		20mA	B4	RR
MUI2/14	892 300 000		4				60		REC		20mA	B4	RR
MUI4	892 300 000		4				60		REC		20mA	B4	RR
MU4250	232 300 000	D <sub>1</sub>	4				120		REC		30mA	B4	R
MVSG	542 310 000	A	4	1.5	200	75	7.5	2.5	100	75	2.5	B5	P
MVSPen	542 310 000	A	4	2	250	125	5.1	2.3	200	100	2.3	B5	P
MVSPen	041 231 500	A	4	1.5	200	100	4.3	2.2	100	100	2.2	B7	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
MVSPenB	061 231 500	G <sub>1</sub>	4	1.5	200	100	4.3	2.2	200	100	2.2	B7	P
MX40	645 231 700	G <sub>1</sub>	4	3	150	75			100				
MZ05-20	642 300 000		6		250	75			100	75	2.8	B7	TH
M8079	192 310 800		6	12	350		45	4.2	100		4	B4	T
M8081	672 344 100		6	0.85	100		5		No data available			B7G	RR
			6				8.5	5.3	No data available			B7G	TT
M8082	412 360 500		6	12.4	250	250	16	2.6	No data available			B7G	P
M8083	412 361 500		6	2	250	250	10	7.65	No data available			B7G	P
M8096	601 235 144		6	7.5	250	250	45.0	7.0	100	150	7.0	B9A	P
M8097	812 314 600		6	2.8	200		7.5	2.8	100		2.8	B7G	DT
M8099	412 314 600		6	2	250		6.0	8.5	200		8.0	B7G	T
M8100	412 365 100		6	2.3	150	150	7	4.3	No data available			B7G	P
M8101	412 365 100		6	1.0	250	100	11.0	4.4	250	100	4.4	B7G	P
M8121	412 163 510		6	1.4	100	100	7.0	5.0	100	100	5.0	M8	P
M8122	412 653 160		6	2.0	100	100	7.5	5.0	100	100	5.0	M8	P
M8123	281 380 000		6				5.0		D			M5	R
M8125	412 163 510		6	2.0	100	100	3.0	2.5	100	100	2.3	M8	P
M8135	412 3** 651		6	4.5	250	250	40.0	11.0	100	150	10.0	B9A	P
M8137	741 226 413		6	2.0	250		1.2	1.6	100		1.6	B9A	TT
M8138	802 309 100		6				30.0		REC		15mA	B7G	RR
M8156	462 603 160		6	2.0	100		13.0	5.5	100		5.5	M8	T
M8157	265 511 413		6	30.0	300	250	25.0	1.9	100	100	1.9	B9G	P
M8161	412 361 500		6	2.5	250	200	8.0	2.5	100	PenLF	2.5	B7G	P
M8162	741 226 413		6	1.5	200		8.5	6.5	200		8.5	B9A	TT
NF2	023 110 560	G <sub>1</sub>	12.5	2	200	250	3	2.1	100	150	2.1	8SC	P
NF3	023 110 560	G <sub>1</sub>	12.5	2	200	100	4.5	2.3	100	100	2.3	8SC	P
NG320	002 300 000	D <sub>1</sub>	2						D			B5	D
NI4	036 540 200		1.4	7	90	90	7	1.55	80	75	1.55	A08	P
NI5	026 540 230		1.4	7	90	90	7	1.55	80	75	1.55	A08	P
NI6	026 540 230		1.4	4.5	90	90	9.5	2.1	80	90	2.1	A08	P
NI7	264 536 200		1.4	7	90	75	7.4	1.58	80	60	1.58	B7G	P
NI8	364 526 300		1.4	4.5	90	90	9.5	2.1	80	75	2	B7G	P
NI9	365 024 300		1.4	4.5	90	90	7.7	2.0	80	75	2.0	B7G	P
N30	045 231 600		13	12	250	250	40	3.9	100	PenLF	3.9	B7	P
N31	205 331 600	G <sub>1</sub>	13	4	200	175	40	10	100	100	9	B7	P
N37	412 360 500		13	8.0	175	150	50	10.0	100	100	9.0	B7G	P
N40	045 231 600		4	3.5	250	250	32	2.9	100	150	2.9	B7	P
N41	045 231 600		4	4.4	250	250	40	10.5	100	PenLF	9	B7	P
N42	045 231 600		4	16.5	250	250	34	2.5	100	PenLF	2.5	B7	P
N43	005 231 600	G <sub>1</sub>	4	4.4	250	250	40	10	100	PenLF	9	B7	P
N63	026 540 310		6	16.5	250	250	34	2.5	100	150	2.5	A08	P
N66	026 540 310		6	15	250	250	85	6.3	100	150	6	A08	P
N77	412 360 500		6	12	250	250	20	2.6	100	PenLF	2.6	B7G	P
N78	412 360 500		6	5.5	250	250	35	10.0	100	150	9.0	B7G	P
NI08	412 36* 500		40	8	175	150	50	10	100	100	9	B7G	P

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				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
N142	261 054 130		45	9.5	175	175	54.5	9.5	100	100	9.0	B8A	P
N144	412 360 500		6	12	250	250	20.0	2.6	100	PenLF	2.6	B7G	P
N145	261 054 130		40	6.3	175	150	29	7.5	100	100	7.0	B8A	P
N147	026 540 310		6	6	250	250	36	9	100	PenLF	8	A08	P
N148	265 004 130		6	12.5	250	250	45	4.1	100	100	4	B8A	P
N150	261 054 130		6	7	250	250	36	10	100	100	9	B8A	P
N151	261 054 130		6	13.5	250	250	22.5	2.9	100	100	2.9	B8A	P
N152	041 231 551	A	21.5	28	200	200	40.0	6.0	100	100	6.0	B9A	P
N153	541 231 600		15	2.3	175	175	36.0	10.0	100	100	9.0	B9A	P
N309	541 231 600		15	2.3	175	175	36.0	10.0	100	100	9.0	B9A	P
N329	*41 234 6*5		16	14.2	200	200	45	8.2	100	100	7.0	B9A	P
N339	141 231 605	A	20	12	150	150	50.0	8.5	100	100	7.0	B9A	P
N349	*41 23* *51	A	20	12.0	150	150	5.0	8.5	100	100	7.0	B9A	P
N709	*41 23* 6*5		6	7.3	250	250	48	11.3	100	150	10	B9A	P
N727	412 365 400		6	12.5	250	250	45.0	4.1	100	PenLF	4.0	B7G	P
OBC3	041 896 230		12.5	2	250		1	1.1	150		1.1	A08	DDT
OM1	020 080 310		30				120		REC		30mA	A08	R
OM3	028 190 310		6						D			A08	DD
OM4	026 980 310	G <sub>1</sub>	6	5	250		5.5	2.2	100		2.2	A08	DDT
OM5	026 510 310	G <sub>1</sub>	6	2	250	100	3	1.8	100	100	1.8	A08	P
OM6	026 510 310	G <sub>1</sub>	6	2.5	250	100	6	2	100	100	2	A08	P
OM7	026 510 310	G <sub>1</sub>	6	2.5	250	100	6	2	100	100	2	A08	P
OM9	026 500 310	G <sub>1</sub>	6	18	250	250	32	2.8	100	150	2.8	A08	P
OM10	027 546 310	G <sub>1</sub>	6	2.0	100		5.4	2.2	100		2.8		
OP41	045 231 600		4	2.0	250	100	2.7	0.7	100	100	0.7	A08	TH
				12.5	250	250		9.1	100	100	8	B7	P
OP42	045 231 600		4	6.2	250	250		10.5	100	150	9	B7	P
O15/400	642 300 000		4	35	400		40	4.5	100		4.5	B4	T
PABC80	†91 238 146		9.5	2.3	200		1.0	1.4	100		1.4	B9A	DDDT
PABI	023 1†0 980		6						D			8SC	DDD
PAI	642 310 000		4	10	200		40	5	100		5	B5	T
PA20	642 300 000		2	36	300		49	5.2	100		5	B4	T
PA40	642 300 000		4	90	400		200	10	100		9	B4	T
PBF2	026 895 310	G <sub>1</sub>	6	3	250	100	5.8	1.2	100	100	1.2	A08	DDP
PB495	892 300 000		4				30		REC		15mA	B4	RR
PCC84	147 234 116		7.5	1.5	90		12.0	6.0	100		6.0	B9A	TT
PCC85	641 237 410		9	2.1	200			5.8	200		5.8	B9A	TT
PCF80	645 237 114		9	2	100		14.0	5.0	100		5.0		
				2.0	175	175	10.0	6.2	150	150	10.0	B9A	TP
PCF82	645 237 114		9.5	1.0	150	0	18	8.5	100	60	7.0		
				1.0	250	100	10	5.2	100	100	5.0	B9A	TP
PCL83	641 237 154		12.5	8.5	250	0	10.5	2.2	100	60	2.0		
				9.0	175	175	30	4.7	100	100	4.0	B9A	TP
PD220	446 230 700		2	1.15	150		0.8	0.9	150		0.9	B7	TT
PD220A	446 230 700		2	6	150		32	1.5	100		1.5	B7	TT



VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
PenA1	642 350 000		4	16.5	250	250	32	3	100	PenLF	3	B5	P
PenA4	045 231 600		4	5.8	250	250	36	9.5	100	PenLF	9	B7	P
PenA4	005 231 600	G <sub>1</sub>	4	5	250	250	40	9.1	100	100	8	B7	P
PenB1	642 350 000		2	4.5	150	150	8		100	100		B5	P
PenB4	045 231 600		4	14	250	275	72	8.5	100	PenLF	7	B7	P
PenDD61	869 231 500	G <sub>1</sub>	6	5.3	250	250	32.0	8.5	250	200	8.0	B7	DDP
PenDD1360	968 231 500	G <sub>1</sub>	13	5.3	250	250	32	8.2	100	PenLF	7	B7	DDP
PenDD2530	869 231 500	G <sub>1</sub>	25	7.75	250	250	43	7.8	100	150	7.8	B7	DDP
PenDD4020	968 231 500	G <sub>1</sub>	40	7.75	250	250	43	7.8	100	PenLF	6	B7	DDP
PenDD4021	968 231 500	G <sub>1</sub>	45	10	175	175	64	10.5	100	PenLF	8	B7	DDP
Pen4DD	918 236 500	G <sub>1</sub>	4	6	250	250	36	9.5	100	PenLF	8	B7	DDP
Pen4VA	642 310 000	S	4	22	250	250	36	2.8	100	PenLF	2.8	B5	P
Pen4VA	045 231 600		4	22	250	250	36	2.8	100	PenLF	2.8	B7	P
Pen4VB	045 231 600		4	5.8	250	250	36	9.5	100	PenLF	8	B7	P
Pen4VX	642 310 000	S	4	15	350	200	22	3.5	100	150	3.5	B5	P
Pen13	023 100 560	G <sub>1</sub>	13	14	200	200	25	2.5	100	100	2.5	8SC	P
Pen13A	023 110 560	G <sub>1</sub>	33	8.5	200	200	45	8	100	100	6	8SC	P
Pen13C	045 231 600		13	11	250	250	32	6.5	100	PenLF	6	B7	P
Pen20	642 310 000	S	20	18	200	200	20	1.7	100	150	1.7	B5	P
Pen24	206 540 030		2	3.3	125	125	5	4	100	100	4	M08	P
Pen25	206 540 030		2	3.6	125	125	5	3	100	100	3	M08	P
Pen26	023 100 560	G <sub>1</sub>	24	19	200	100	40	3.1	100	60	3	8SC	P
Pen36A	145 231 600		35	8.5	200	200	45	8	100	150	7	B7	P
Pen36C	045 231 600		33	8.5	200	200	45	8	100	100	7	B7	P
Pen40DD	918 236 500	G <sub>1</sub>	44	8.5	200	200	45	8	100	100	7	B7	DDP
Pen44	216 540 030		4	11	300	275	70	10.6	100	PenLF	9	M08	P
Pen45	216 540 030		4	8.5	250	250	40	8.8	100	PenLF	8	M08	P
Pen45DD	216 590 830	G <sub>1</sub>	4	8.5	250	250	40	8.8	100	PenLF	8	M08	DDP
Pen46	210 540 030	A	4	8.5	300	225	63	8.5	100	PenLF	8	M08	P
Pen141	206 540 030		1.4	9	90	90	5.5	1.4	80	75	1.4	M08	P
Pen220	642 350 000		2	4.9	150	150	9	2.2	100	100	2.2	B5	P
Pen220A	642 350 000		2	9	150	150	18	2.2	100	100	2.2	B5	P
Pen231	642 350 000		2	2.5	125	125	5	3.6	100	100	3.6	B5	P
Pen383	216 540 030		38	10	175	175	64	10.5	100	100	9	M08	P
Pen384	216 540 030		38	7	125	125	40	7.8	100	100	7	M08	P
Pen425	642 350 000		4	25	300	200	20	1.7	100	100	1.7	B5	P
Pen428	045 231 600		4	12.0	250	250	7.2	8.5	250	200	7.0	B7	P
Pen453DD	216 590 830	G <sub>1</sub>	45	10	175	175	64	10.5	100	100	9	M08	DDP
Pen650	023 114 500	A	6	24	400	300	30	5	100	150	5	8SC	P
Pen1340	045 231 600		13	8.6	250	250	41	6.4	100	PenLF	6	B7	P
Pen2020	023 100 560	G <sub>1</sub>	20	19	200	100	40	3.1	100	60	3.1	8SC	P
Pen3520	045 231 600		35	8.0	200	200	40.0	7.3	100	100	7.0	B7	P
Pen3820	045 231 600		38	10	150	175	64	10.5	100	100	9	B7	P
PF9	026 510 310	G <sub>1</sub>	6	3.5	250	100	7.5	1.65	100	100	1.6	A08	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
PF462	041 230 500	A	2	1	150	150	3	1.85	150	150	1.85	B7	P
PF472	041 230 500	A	2	0.5	150	150	2.5	1.7	150	150	1.7	B7	P
PL33	026 540 310		19	6	250	250	36	9.0	100	PenLF	8	A08	P
PL38	120 540 310	A	30	5.5	200	200	75	13.5	100	PenLF	10	A08	P
PL81	041 231 551	A	21.5	28	200	200	40	6.0	100	100	6.0	B9A	P
PL82	041 230 605		16	14.2	200	200	45.0	8.2	100	100	7.0	B9A	P
PL83	541 231 600		15	2.3	175	175	36	10	100	100	9	B9A	P
PL820	041 231 551	A	21.5	22.0	175	175	45.0	6.2	100	100	6.0	B9A	P
PM1A	642 300 000		2	0	100		1	1.2	100		1.2	B4	T
PM1HF	642 300 000		2	3	150		1.5	0.8	100		0.8	B4	T
PM1HL	642 300 000		2	1.5	150		2.3	1.2	150		1.2	B4	T
PM1LF	642 300 000		2	6	125		3	0.9	100		0.9	B4	T
PM2	642 300 000		2	7	100		4	0.9	100		0.9	B4	T
PM2A	642 300 000		2	6	150		5	2	100		2	B4	T
PM2B	446 230 700		2	1	125		3	2.5	100		2.5	B7	TT
PM2BA	446 230 700		2	1	100			2.1	100		2.1	B7	TT
PM2DL	642 300 000		2	4.5	150		2	1.5	100		1.5	04	T
PM2DX	642 300 000		2	5	150		2.3	1.05	100		1	B4	T
PM2HL	642 300 000		2	1.5	150		2.2	1.4	150		1.4	B4	T
PM3	642 300 000		4	0	100		2	1.05	100		1.0	B4	T
PM4DX	642 300 000		4	0	100		1.5	2	100		2	B4	T
PM12	542 300 000	A	2		150	75	4.25	1.1	100	75	1.1	B4	P
PM12A	542 300 000	A	2	1	150	75	2	1.5	100	75	1.5	B4	P
PM12M	542 300 000	A	2	1	150	90	2.5	1.4	150	90	1.4	B4	P
PM12V	542 300 000	A	2	0	150	90		0.75	100	90	0.7	B4	P
PM14	542 300 000	A	4	0	150	75	2.75	0.87	100	75	0.8	B4	P
PM22	642 350 000		2	10	150	150	15	1.3	100	100	1.3	B5	P
PM22A	642 350 000		2	4.5	150	150	5.6	2.2	100	100	2.2	B5	P
PM22C	642 350 000		2	16	150	150	23	3	100	100	3	B5	P
PM22D	642 350 000		2	3	150	150	5	3	100	100	3	B5	P
PM24	642 350 000		4	11	150	150	20	1.75	100	100	1.7	B5	P
PM24	642 310 000	S	4	11	150	150	20	1.75	100	100	1.7	B5	P
PM24A	642 350 000		4	22.5	300	200	20	2	100	100	2	B5	P
PM24B	642 350 000		4	40	400	300	30	2.1	100	100	2.1	B5	P
PM24C	642 350 000		4	28	400	200	30		100	100		B5	P
PM24D	642 350 000		4	35	400	200	50	4	100	100	4	B5	P
PM24E	642 350 000		4	40	300	300	83	3.9	100	150	3.9	B5	P
PM24M	642 350 000		4	17	250	250	30	3	100	PenLF	3	B5	P
PM202	642 300 000		2	12	150		14	2.5	100		2.5	B4	T
PM252	642 300 000		2	15	125		10		100			B4	T
PM254	642 300 000		4	21	200		15		100			B4	T
PM256	642 300 000		6	27	250		20		100			B4	T
PN2	642 350 000		2	7.5	150	150	6		100	100		B5	P
PP2	642 300 000	S	2	5	150	150	7	2.1	100	100	2.1	B4	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
PP2	642 350 000		2	5	150	150	7	2.1	100	100	2.1	B5	P
PP2s	023 004 560		2	5	150	150	7	2.1	100	100	2.1	8SC	P
PP3/250	642 300 000		4	37	300		48	5.2	100		5.2	B4	T
PP4	642 350 000		4	15	250	250	36		100	PenLF		B5	P
PP4s	032 004 560		4	15	250	250	36		100	PenLF		8SC	P
PP4s	642 350 000		4	15	250	250	36		100	PenLF		B5	P
PP5/400	642 300 000		4	32	400		62	8	100		7	B4	T
PP6As	023 104 560		6	18	250	250	32	2.85	100	PenLF	2.8	8SC	P
PP6B	265 413 000		6		250	250	36	10	100	PenLF	9	UX6	P
PP6BG	026 540 310		6	6	250	250	36	10	100	PenLF	9	A08	P
PP6C	026 540 310		6	12	250	200	36	10	100	PenLF	9	A08	P
PP6E	045 231 600		6	17	400	275	72	8.5	100	PenLF	8	B7	P
PP13A	045 231 600		13	12	200	200	40	2.65	100	100	2.5	B7	P
PP13s	023 100 560	G <sub>1</sub>	13	14	200	200	25	3.5	100	100	3.5	8SC	P
PP24	005 231 600	G <sub>1</sub>	24	19	200	100	40	3	100	75	3	B7	P
PP24S	023 100 560	G <sub>1</sub>	24	19	200	100	40	3	100	75	3	8SC	P
PP34	005 231 600	G <sub>1</sub>	35	6.5	200	200	45	8.5	100	100	8	B7	P
PP34S	023 100 560	G <sub>1</sub>	35	6.5	200	200	45	8.5	100	100	8	8SC	P
PP35	045 231 600		35	6.5	200	200	45	8.5	100	100	8	B7	P
PP36	145 231 600		35	6.5	200	200	45	8.5	100	100	8	B7	P
PP37	005 231 600	G <sub>1</sub>	35	9.5	200	100	45	8.5	100	75	8	B7	P
PP60	026 540 310		6	15	250	250	85	6.3	100	150	6.3	A08	P
PP215	642 350 000		2	4.5	90	90	8		80	75		B5	P
PP215S	032 004 560		2	4.5	90	90	8		80	75		8SC	P
PP220	642 300 000		2	12	150		12.5	3	100		3	B4	T
PP222	642 350 000		2	6	150	150	9		100	100		B5	P
PP222	642 300 000	S	2	6	150	150	9		100	100		B4	P
PP225	642 350 000		2	12	150	150	18	2	100	100	2	B5	P
PP225s	023 004 560		2	12	150	125	18	2	100	100	2	8SC	P
PP415	642 350 000		4	12	200	200	12	1.8	100	150	1.8	B5	P
PP416	642 350 000		4	12	200	75	10	2	100	60	2	B5	P
PP430	642 350 000		4	25	200	200	20	2	100	100	2	B5	P
PP2018	642 310 000	S	20	18	200	200	20	2.5	100	100	2.5	B5	P
PP2018	045 231 600		20	18	200	200	20	2.5	100	100	2.5	B7	P
PP2101	364 520 000		2	3	150	150	7	2.1	100	100	2.1	UX5	P
PP3521	040 231 600		35	25	200		70	6.3	100		6	B7	T
PP4100	642 350 000		4	40	400	300	30	3	100	PenLF	3	B5	P
PP4101	642 350 000		4	14	250	250	36	3.5	100	PenLF	3.5	B5	P
PP4118	160 452 300		40	10	175	175	35	6.5	100	100	6	C7	P
PTAD	968 231 500	G <sub>1</sub>	4	6	250	250	32	7	100	PenLF	7	B7	DDP
PTA	045 231 600		13	10	250	250	32	4	100	PenLF	4	B7	P
PTS	005 231 600	G <sub>1</sub>	26	5.5	250	200	40	6	100	PenLF	6	B7	P
PTSA	869 231 500	G <sub>1</sub>	26	5.5	200	200	40		100	PenLF		B7	DDP
PTSD	968 231 500	G <sub>1</sub>	26	5	250	200	40	6	100	PenLF	6	B7	DDP

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
PTZ	005 231 600	G <sub>1</sub>	40	5.5	250	200	40	7.5	100	PenLF	7	B7	P
PT2	642 350 000		2	4.5	125	125	5.3	2.6	100	100	2.6	B5	P
PT2A	642 350 000		2	10.5	150	150	18		100	100		B5	P
PT	045 231 600		4	6	250	250	32.5	7.5	100	PenLF	7	B7	P
PT4	642 350 000		4		250	250		2.85	100	PenLF	2.85	B5	P
PT4/D	968 231 500	G <sub>1</sub>	4	6	250	250	32.5	7.5	100	PenLF	7	B7	DDP
PT10	045 231 600		4	7.5	250	250	40	9	100	PenLF	8	B7	P
PT12	204 531 102	A	10	15	250	250	62	6	100	PenLF	6	B9	P
PT15	542 310 000	A	6	25.0	300	300	2.8		No Data Available			B5	P
PT16	642 350 000		4	15	300	300	55	4.8	100	PenLF	4.8	B5	P
PT25	642 350 000		4	22	400	200	62	4	100	100	4	B5	P
PT25H	642 350 000		4	22	400	300	62.5	6.5	100	PenLF	5	B5	P
PT4I	642 350 000		4	12.5	250	200	30	3	100	100	3	B5	P
PT4IB	642 350 000		4	40	400	300	30	2.25	100	PenLF	2	B5	P
PT225	642 350 000		2	6	150	150	8		100	100		B5	P
PT225	642 300 000	S	2	6	150	150	8		100	100		B4	P
PT240	642 350 000		2	10.5	200	150	16		100	100		B5	P
PT250	642 350 000		2	15	250	250	40		100	PenLF		B5	P
PT425	642 350 000		4		150	150	15	2	100	100	2	B5	P
PVB6	892 310 000		6				60		REC		20mA	B5	RR
PV06-20	400 235 100	A	6	40	200	300	40	4	100	100	4	B7	P
PV06-25	401 235 100	A	6	40	200	300	40	4	100	100	4	B7	P
PV1-35	401 235 100	A	12	25	250	200	40	2	100	100	2	B7	P
PV4	892 300 000		4				60		REC		20 mA	B4	RR
PV25	091 231 800		25				60		REC		20mA	B7	RR
PV29	091 231 800		30				60		REC		20mA	B7	RR
PV29s	123 180 090		30				60		REC		20mA	8SC	RR
PV30	091 231 800		30				30		REC		15mA	B7	RR
PV30s	123 180 090		30				30		REC		15mA	8SC	RR
PV75/1000	892 300 000		4				30		REC		17 mA	B4	RR
PV100/2000	892 300 000		4				60		REC		18 mA	B4	RR
PV200/600	892 300 000		4				120		REC		28 mA	B4	RR
PV400	802 300 000		4				30		REC		15 mA	B4	R
PV430	892 300 000		4				15		REC		9 mA	B4	RR
PV475	892 300 000		4				15		REC		11 mA	B4	RR
PV480	802 300 000		4				30		REC		16 mA	B4	R
PV495	892 300 000		4				30		REC		17 mA	B4	RR
PV3018	190 812 300		30				60		REC		20mA	C7	RR
PV4100	892 300 000		4				30		REC		15 mA	B4	RR
PV4200	892 300 000		4				60		REC		27 mA	B4	RR
PV4201	892 300 000		4				60		REC		27 mA	B4	RR
PV4300	892 300 000		4				60		REC		20 mA	B4	RR
PX2	642 300 000		2	22	150		22	1.5	100		1.5	B4	T
PX4	642 300 000		4	43	300		43	6	100		6	B4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
PX5	642 300 000		4	34	400		62.5	6.5	100		6.5	B4	T
PX25	642 300 000		4	31	400		50	7.5	100		7	B4	T
PX25A	642 300 000		4	100	400		62.5	6.9	100		6.9	B4	T
PX41	642 300 000		4	40	250		49	6	100		6	B4	T
PX230	642 300 000		2	15	150		17.5	3.5	100		3.5	B4	T
PX230SW	602 300 000	G <sub>1</sub>	2	15	150		18	3.5	100		3.5	B4	T
PX240	642 300 000		2	32	200		25	3	100		3	B4	T
PX2100	642 300 000		7.5	30	400		18	1.6	100		1.6	Sm4	T
PY31	020 080 310		17				120		REC		30mA	A08	R
PY80	001 230 008		19				120		REC		35mA	B9A	R
PY81	080 230 008	C	17				120		REC		35mA	B9A	R
PY82	**1 23* **8		19				120		REC		36mA	B9A	R
PY83	*** 23* **8	C	20				120		REC		35mA	B9A	R
PZ	264 530 000		2.5	16.5	250	250	31	2.5	100	PenLF	2.5	UX5	P
PZH	265 413 000		2.5	16.5	250	250	34	2.2	100	PenLF	2.2	UX6	P
PZ03-3	401 235 000	A	4	25	300	125	25	1.4	100	100	1.4	B7	P
PZ05-15	401 235 000	A	4		400	150	40	1.25	100	100	1.2	B7	P
PZ30	029 183 210		26				120		REC		30mA	A08	RR
P2	642 300 000		2	10	150		19	3.5	100		3.5	B4	T
P4	642 300 000		4	21	250		30	2.8	100		2.8	B4	T
P12/250	642 300 000		4	44	250		60	6	100		6	B4	T
P15/250	642 300 000		4	44	250		60	6	100		6	B4	T
P15/250(S)	023 004 060		4	44	250		60	6	100		6	8SC	T
P24/450	642 300 000		7.5	70	400		55	2.1	100		2.1	B4	T
P25/400	642 300 000		6	100	350		70	3.7	100		3.7	B4	T
P25/500	642 300 000		6	90	400		65	3	100		3	B4	T
P26/500	642 300 000		4	100	400		62.5	4.2	100		4.2	B4	T
P27/500	642 300 000		4	27	400		62.5	8.5	100		8	B4	T
P30/500	642 300 000		4	100	400		60	4	100		4	B4	T
P41	216 040 030		4	11.8	250		16	4.5	100		4.5	M08	T
P61	216 040 030		6	11.8	250		16	4.5	100		4.5	M08	T
P215	642 300 000		2	12	150		8	2.2	100		2.2	B4	T
P220	642 300 000		2	7.5	150		6	3.0	100		3	B4	T
P220A	642 300 000		2	14	150		15	2.7	100		2.7	B4	T
P222	642 300 000		2	7.5	150		6	3	100		3	B4	T
P240	642 300 000		2	1	100			3.7	100		3.7	B4	T
P240A	642 300 000		2	21	150		25	5	100		5	B4	T
P410	642 300 000		4	12	150		8	1.5	100		1.5	B4	T
P414	642 300 000		4	16	100		14	2.8	80		2.8	B4	T
P415	642 300 000		4	25	150		14	1.5	100		1.5	B4	T
P420	642 300 000		4	85	400		50	6	100		6	B4	T
P430	264 300 000		4	30	200		25	2.2	100		2.2	UX4	T
P455	264 300 000		4	15	250		30	5.5	100		5.5	UX4	T
P460	642 300 000		4	40	200		50	3.5	100		3.5	B4	T
P469	045 231 600		4	14	250	275	72	8.5	100	PenLF	7	B7	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
P495	045 231 600		4	6	200	200	32		100	100		B7	P
P496	045 231 600		4	6	200	200	32	9.5	100	100	8	B7	P
P625B	642 300 000		6	1	200			2.8	200		2.8	B4	T
P650	642 300 000		6	1	200			3.5	200		3.5	B4	T
P861	289 130 000		6				30		REC		15mA	UX5	RR
P2018	642 310 000		20	15	200		20	4	100		4	B5	T
P2060	023 104 560		24	19	200	100	40	3.15	100	90	3	8SC	P
P2460	642 310 000	S	24	19	200	100	40		100	90		B5	P
P3580	045 231 600		33	8.5	200	200	45	8	100	150	7	B7	P
P4100	642 300 000		4	40	400		30		100			B4	T
QA2400	412 361 500		6	2.5	200	200	8.0	2.5	100	150	2.5	B7G	P
QA2401	6*2 364 100		6	8.5	250		10.5	2.2	100		2.22	B7G	T
QA2402	412 360 500		6	12.0	250	200	20	2.6	100	150	2.6	B7G	P
QA2403	412 361 500		6	2.0	250	250	10	7.5	100	150	5.0	B7G	P
QA2404	192 310 800		6				5.0		D			B7G	DD
QA2405	241 657 143		6	14	250	150	30	3.9	100	100	3.9	B9G	PP
QA2406	471 226 413		6	2.0	250		10	5.5	100		5.0	B9A	TT
QA2407	802 309 100		6				30		REC		15mA	B7G	RR
QA2408	471 461 230		6	8.0	250		9.0	2.6	100		2.6	A08	TT
QPT2	446 235 700		2	9	150	150	3.3		100	100		B7	PP
QP21	446 235 700		2	9.8	150	150	3.5	2.3	100	100	2.3	B7	PP
QP22A	465 230 574		2	12	150	150	3	4	150	150	4	B9	PP
QP22B	446 235 700		2	11.7	150	150	3.8		100	100		B7	PP
QP25	207 544 630		2	6	125	125	10	3	100	100	3	M08	PP
QP230	446 235 700		2	9.6	125	125	4.65	3	100	100	3	B7	PP
QP240	465 230 574		2	11.5	150	150	4	4	100	100	4	B9	PP
QQV03-10	414 226 573		6	60	200	150	30.0	3.3	No Data Available			B9A	PP
QV03-12	601 235 144		6	7.5	250	250	45.0	7.0	100	150	7.0	B9A	P
QQV04-20	241 531 420	A <sub>1</sub> A <sub>2</sub>	6	22	400	200	25	4	100	100	4	A08	PP
QQZ04-15	273 624 540		3	10	300	200	20	2	100	100	2	B8B	PP
QV04-7	265 511 413		6	30	300	250	25	1.9	100	100	1.9	B9G	P
QV04-12	601 235 144		6	7.5	250	250	45	7	100	150	7	B9A	P
QV04-20	241 531 420	A <sub>1</sub> A <sub>2</sub>	6	22	400	200	25	4	100	100	4	A08	PP
QV05-25	254 130 000	A	6	12.5	300	250	83	6.5	100	150	6	UX5	P
QV06-20	125 141 130	A	6	30	200	200	100	7	No Data available			A08	P
RA	892 310 000		13				30		REC			B5	RR
RA1	364 200 000		15	4.5	90		4.5	1.185	80		1.1	UX4	T
RB350/80	892 300 000		4				30		REC		15mA	B4	RR
RB500/120	892 300 000		4				60		REC		20mA	B4	RR
RB650/250	892 300 000		4				120		REC		30mA	B4	RR
RFP8/14	041 231 500	A <sub>1</sub>	4	20	400	250	35	4	100	PenLF	4	B7	P
RFP8/14	542 310 000	A <sub>1</sub>	4	20	400	250	35	4	100	PenLF	4	B5	P
RGN 1074	892 300 000		4				60		REC		20mA	B4	RR
RG250/1000	002 300 000	D <sub>1</sub>	4				120		REC		30mA	B4	R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
RG250/3000	280 300 000		2.5				120		REC		30mA	UX4	R
RK10	264 300 000		7.5	100	350		50		100			UX4	T
RK15	264 300 000		2.5	33	250		22	2.35	100		2.3	UX4	T
RK16	264 130 000		2.5	28	250		26	2.6	100		2.6	UX5	T
RK19	200 300 000	D <sub>1</sub> D <sub>2</sub>	7.5				120		REC		30mA	UX4	RR
RK21	200 300 000	D <sub>1</sub>	2.5				120		REC		30mA	UX4	R
RK24	364 200 000		2	13.5	175		8	1.6	100		1.6	UX4	T
RK60	200 300 000	D <sub>1</sub> D <sub>2</sub>	5				120		REC		30mA	UX4	RR
RL16	241 600 003		6	2.5	250		10	6.5	100		5	B9G	T
RL37	244 664 413		6	1.5	250		10	9	100		7	B9G	T
RS	802 310 000		3				60		REC		20mA	B5	R
RRAF	642 300 000		4	2	125		4	1.45	100		1.4	B4	T
RRBF	642 300 000		4	2.5	125		10	1.25	100		1.2	B4	T
RSAB	542 300 000	A	4	1	150	75	4.5	1.25	150	75	1.25	B4	T
RT1-2	642 300 000		4	2.6	125		26	2.5	100		2.5	B4	T
RT2	642 300 000		4	4	200		18	1.75	150		1.75	B4	T
RT3	642 300 000		4	2.3	300		15	2.85	100		2.8	B4	T
RV120/250	892 300 000		4				60		Rec		20mA	B4	RR
RV120/350	892 300 000		4				60		REC		20mA	B4	RR
RV120/350S	023 080 090		4				60		REC		20mA	8SC	RR
RV120/500	892 300 000		4				60		REC		20mA	B4	RR
RV120/500S	023 080 090		4				60		REC		20mA	8SC	RR
RV200/600	892 300 000		4				120		REC		30mA	B4	RR
RX21	200 030 000	D <sub>1</sub>	2.5				120		REC		30mA	UX5	R
RX215	389 200 000		2.5				5		D			UX4	RR
RZ	023 100 080		20				60		REC		20mA	8SC	R
R1	892 300 000		4				30		REC		15mA	B4	RR
R2	892 300 000		4				60		REC		20mA	B4	RR
R3	892 300 000		4				60		REC		20mA	B4	RR
R4	892 300 000		4				60		REC		20mA	B4	RR
R4a	892 300 000		4				60		REC		20mA	B4	RR
R4B	802 300 000		4				60		Rec		21 mA	B4	R
R10	112 311 100	D <sub>1</sub>	4				5		D			B7G	R
R11	002 300 000	D <sub>1</sub>	4				60		REC		20mA	B4	R
R12	023 000 000	D <sub>1</sub>	6						D			B3G	D
R14	028 193 210		26				120		Rec		20 mA	A08	RR
R16	123 000 000		1.4						D			B3G	D
R17	***1 23* ***	D <sub>1</sub>	6				120		REC		30mA	B9A	R
R18	***1 23* ***	D <sub>1</sub>	6				120		REC		36mA	B9A	R
R19	230 232 032	D <sub>1</sub>	1.25						D			B9A	D
R41	892 300 000		4				60		Rec		20 mA	B4	RR
R42	892 300 000		4				60		REC		20mA	B4	RR
R52	030 809 020		5				60		REC		20mA	A08	RR
R80	264 300 000		4	24	250		20	4	100		4	UX4	T
R236	026 510 300	G <sub>1</sub>	1.4	2	100	100	1	0.55	100	100	0.5	A08	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
R2018	642 310 000		20	2.5	200		2.5	3	100		3	B5	T
SD	892 310 000		5						D			B5	DD
SD6	*82 310 *00		6				5		D			B7G	R
SD6I	123 000 000	D <sub>1</sub>	6						D			B3G	D
SE211	542 300 000	A	2	1	150	75	1	1.5	150	75	1.5	B4	P
SE211C	542 300 000	A	2		150	75	1	1.5	150	75	1.5	B4	P
SE2018	542 310 000	A	20	3	200	60	4	1.2	100	60	1.2	B5	P
SE2118	542 310 000	A	20	24	200	100	3	3	100	60	3	B5	P
SGA1	542 310 000	A	4		200	100	6	3	100	100	3	B5	P
SG2	542 300 000	A	2		150	75	2.5	1	100	75	1	B4	P
SG215	542 300 000	A	2	1.5	150	75	2.7	1	100	75	1	B4	P
SG220	542 300 000	A	2	1.5	150	75	2.4	1.5	100	75	1.5	B4	P
SG220SW	652 300 000	G <sub>1</sub>	2	1.5	150	75	2.4	1.5	150	75	1.5	B4	P
SPTS	041 231 500	A	13	1.5	250	100	2	3	100	100	3	B7	P
SPT2	041 230 500	A	2	1	125	125	2.8	1.5	125	100	1.5	B7	P
SPT4A	041 231 500	A	4	1.5	250	100	2	2.3	200	100	2.3	B7	P
SP2	041 230 500	A	2	1	150	150	3	1.8	150	150	1.8	B7	P
SP2B	061 230 500	G <sub>1</sub>	2	1	150	150	2.6	0.8	150	150	0.8	B7	P
SP2B(S)	032 004 560		2	1	150	150	2.6	0.8	150	150	0.8	8SC	P
SP2D	061 230 500	G <sub>1</sub>	2	1	150	150	1.4	1.7	150	150	1.7	B7	P
SP2D	542 300 000	A	2	1	125	125	1.45	1.7	125	100	1.7	B4	P
SP2V	041 230 500	A	2	0	150	75	2.9	1.1	100	75	1	B7	P
(TUNG) SP4	061 231 500	G <sub>1</sub>	4	2	200	100	3	2.3	100	100	2.3	B7	P
SP4	542 310 000	A	4	2	200	100	3	2.3	100	100	2.3	B5	P
SP4A	041 231 500	A	4	2	250	100	3	2.4	100	100	2.4	B7	P
(MUL)SP4	041 231 500	A	4	2	200	100	3	2.3	100	100	2	B7	P
SP4B	061 231 500	G <sub>1</sub>	4	2.4	250	250	4	3.4	100	100	3.4	B7	P
SP4S	023 110 560	G <sub>1</sub>	4	2	250	100	3	3.5	100	PenLF	3.5	8SC	P
SP6	412 361 500		6	2	250	250	10	7.5	100	PenLF	7	B7G	P
SP6S	023 110 560	G <sub>1</sub>	6	2	250	100	3	2	100	100	2	8SC	P
SPI3	061 231 500	A	13	2	200	100	3.3	2.2	100	100	2.2	B7	P
SPI3	023 110 560	G <sub>1</sub>	13	2	200	100	3.3	2.2	100	100	2.2	8SC	P
SPI3B	061 231 500	G <sub>1</sub>	13	1.5	200	200	2	4	100	150	4	B7	P
SPI3C	061 231 500	G <sub>1</sub>	13	2.2	200	200	2.5	2.8	100	150	2.8	B7	P
SPI3S	023 110 560	G <sub>1</sub>	13	2	150	100	3	2.4	100	100	2.4	8SC	P
SP20	542 310 000	A	20		200	100	4.5	3.5	100	100	3.5	B5	P
SP22	206 510 030	G <sub>1</sub>	2	1	125	125	1.1	1.2	125	100	1.2	M08	P
SP35	023 110 560	G <sub>1</sub>	35	8	200	200	41	7	100	PenLF	7	8SC	P
SP41	216 510 030	G <sub>1</sub>	4	1.5	200	200	10.9	8.5	100	150	8	M08	P
SP42	216 510 030	G <sub>1</sub>	4	1.3	200	125	20	8.4	100	100	8	M08	P
SP61	216 510 030	G <sub>1</sub>	6	1.5	200	200	10.9	8.5	100	150	8	M08	P
SP62	216 510 030	G <sub>1</sub>	6	1.25	200	100	16	9	200	100	8	M08	P
SP65	023 110 560	G <sub>1</sub>	6	2	250	100	3	2.1	100	100	2.1	8SC	P
SPI41	206 500 030	G <sub>1</sub>	1.4	1	90	90	1.3	0.75	80	90	0.75	M08	P



VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
SP18I	216 510 030	G <sub>1</sub>	18	1.5	200	200	10.9	8.5	100	PenLF	8	M08	P
SP210	041 230 500	A	2	1	125	125	1.1	1.2	125	100	1.2	B7	P
SP215	041 230 500	A	2	1.5	150	80	2.1	1.6	100	75	1.6	B7	P
SP220	642 300 000		2	12	150		14	3	100		3	B4	T
SP1320	041 231 500	A	13	1.5	250	100	4.4	2.0	100	100	2	B7	P
SP2220	041 231 500	A	22	3	250	200	4.9	2.65	100	150	2.6	B7	P
SR2	642 300 000		2	16	200		10	3	100		3	B4	T
SR4	642 310 000		4	20	250		20	4	100		4	B5	T
SS210C	542 300 000	A	2	1	150	75		1.4	150	75	1.4	B5	T
SS210DDT	682 390 000	G <sub>1</sub>	2	5.5	150		2.4	1.4	100		1.4	B5	DDT
SS210D	642 300 000		2	4.5	150		2	1.6	100		1.6	B4	T
SS210HF	642 300 000		2	4	150		1	0.75	100		0.75	B4	T
SS210HL	642 300 000		2	1.5	150		2	1.4	125		1.4	B4	T
SS210	542 300 000	A	2	1	150	75	0.6	1.4	150	75	1.4	B4	P
SS220PA	642 300 000		2	6	150		8	3.5	100		3.5	B4	T
SS220P	642 300 000		2	12	150		6	1.5	100		1.5	B4	T
SS220SP	642 300 000		2	12	150		14	3.5	100		3.5	B4	T
SS240SP	642 300 000		2	12	150		15	3.5	100		3.5	B4	T
SS2018	542 310 000	A	20	3	200	100	3	3	100	90	3	B5	P
SU25	*2* 0** 3*0	D <sub>1</sub>	2						D			A08	D
SU45	112 311 100	D <sub>1</sub>	4				30		REC		15mA	B7G	R
SU61	023 000 000	D <sub>1</sub>	6						D			B3G	D
SU2130	002 300 000	D <sub>1</sub>	2				2		D			B4	R
SU2150	002 300 000	D <sub>1</sub>	2				2		D			B4	R
SU2150A	002 300 000	D <sub>1</sub>	2				5		D			B4	R
SWG2	652 300 000	G <sub>1</sub>	2		150	75		1.5	100	75	1.5	B4	P
SW1	802 300 000		4				30		REC		15mA	B4	R
S01	264 300 000		15	40.5	175		21	1.5	100		1.5	UX4	T
S02	264 300 000		7.4	88	400		55	2.1	100		2.1	UX4	T
S2	542 300 000	A	2	1	125	60	2.25	1.1	125	60	1.1	B4	P
S4V	542 310 000	A	4	1	200	75	1.5	1.15	100	75	1.1	B5	P
S4VA	542 310 000	A	4	1.5	200	100	2.75	2	100	100	2	B5	P
S4VB	542 310 000	A	4	1.5	200	125	4.6	2.5	100	100	2.5	B5	P
SI1A	892 300 000		4				30		REC		15 mA	B4	RR
SI1D	892 300 000		4				60		REC		20 mA	B4	RR
SI2	542 300 000	A	2	1	100	30	2.5	0.7	No Data Available			Sm4	P
S21	542 300 000	A	2	0	125	75	3.6	1.1	100	75	1.1	B4	P
S22	542 300 000	A	2	0	125	75	4	1.75	125	75	1.75	B4	P
S23	542 300 000	A	2	1	150	75	2.8	1.1	150	75	1.1	B4	P
S24	542 300 000	A	2	1	150	75	3.2	1.4	150	75	1.4	B4	P
S30C	642 300 000		4	38	300		50	5	100		5	B4	T
S30D	642 300 000		2	38	300		50	5	100		5	B4	T
S207	542 300 000	A	2	1.5	200	100	3	0.7	100	100	0.7	B4	P
S208	542 300 000	A	2	0	200	100	2	0.8	100	100	0.8	B4	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
S213	542 300 000	A	2	0.5	150	90	3	1.3	100	90	1.3	B4	P
S215	542 300 000	A	2	1.5	150	90	2.75	1.5	100	90	1.5	B4	P
S215A	542 300 000	A	2	1	150	60	2	1.1	150	60	1.1	B4	P
S215B	542 300 000	A	2	1	150	60	1.5	1.2	150	60	1.2	B4	P
S215VM	542 300 000	A	2	1.4	150	60	1.0	0.8	100	60	0.8	B4	P
S217	542 300 000	A	2	0.5	150	150	2.3	1.7	100	150	1.7	B4	P
S218	041 230 500	A	2	0.5	150	150	3	1.85	100	150	1.8	B7	P
S220	542 300 000	A	2		150	75	4	1.1	150	75	1.1	B4	P
S310A	265 113 000	G <sub>1</sub>	10	3	125	150	5.5	1.9	100	100	1.9	UX6	P
S311A	265 130 000	G <sub>1</sub>	10	15	125	150	30	2.8	100	100	2.8	UX5	P
S328A	265 113 000	G <sub>1</sub>	7.5	3	125	150	5.5	1.9	100	100	1.9	UX6	P
S329A	265 130 000	G <sub>1</sub>	7.5	15	125	150	30	2.8	100	100	2.8	UX5	P
S406/7	542 300 000	A	4	2	200	100	1.5	1	100	100	1	B4	P
S415N	542 310 000	A	4	2	200	100	6	1	100	100	1	B5	P
S420	061 231 500	G <sub>1</sub>	4	3	250	250	11.5		100	200		B7	P
S430N	542 300 000	A	4		200	100	4	3	100	100	3	B5	P
S440	061 231 500	G <sub>1</sub>	4	2.35	250	250	4.1	3.45	100	200	3.4	B7	P
S493	542 310 000	A	4	2	200	100	4		100	100		B5	P
S495	542 310 000	A	4	2	200	100	6	2.5	100	100	2.5	B5	P
SI323	061 231 500	G <sub>1</sub>	13	3	200	100	8	1.85	100	100	1.85	B7	P
SI323	023 110 560	G <sub>1</sub>	13	3	200	100	8	1.85	100	100	1.85	8SC	P
SI324	061 231 500	G <sub>1</sub>	13	2	200	100	3	2.37	100	100	2.3	B7	P
SI328	023 110 560	G <sub>1</sub>	13	2	200	100	3	2.37	100	100	2.3	8SC	P
S2018	041 231 500	A	20	3	200	60	4	1.2	100	60	1.2	B7	P
S2018	542 310 000	A	20	3	200	60	4	1.2	100	60	1.2	B5	P
S4045A	642 350 000		5	70	250	75	45	1.45	100	60	1.45	B5	P
TBC14	809 231 600	G <sub>1</sub>	4	7	250		4	2	100		2	B7	DDT
TBC113	809 231 600	G <sub>1</sub>	13	5	200		4	3.6	100		3.6	B7	DDT
TBI3	802 310 000		13						D			B5	D
TB032	642 300 000		2	30	150		12	1.5	100		1.5	B4	T
TB052	642 300 000		2	15	150		7	1.2	100		1.2	B4	T
TB062	642 300 000		2	10.5	150		13	2	100		2	B4	T
TBI02	642 300 000		2	4	150		5	1.25	100		1.2	B4	T
TBI22	642 300 000		2	4.5	150		6	3.5	100		3.5	B4	T
TBI72	642 300 000		2	4.5	150		4	1.4	100		1.4	B4	T
TB282	642 300 000		2	1.5	150		2	1.3	125		1.3	B4	T
TB402	446 230 700		2	0	150		6		150			B7	TT
TB452	542 300 000	A	2	0	150	75	2	1.5	150	75	1.5	B4	P
TB552	542 300 000	A	2	0	150	75	4	1.5	150	75	1.5	B4	P
TB622	542 300 000	A	2		150	90	2	1.4	100	90	1.4	B4	P
TB9920	642 310 000		20	1.5	200		0.2	4	150		4	B5	T
TC432	642 300 000	S	2	4.5	150	150	9.5		100	100		B4	P
TC432	642 350 000		2	4.5	150	150	9.5		100	100		B5	P
TDD2	682 390 000	G <sub>1</sub>	2	5.5	150		2.5	1.4	100		1.4	B5	DDT
TDD2A	682 390 000	G <sub>1</sub>	2	1.5	150		1.95	1.2	125		1.2	B5	DDT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
TDD4	908 231 600	G <sub>1</sub>	4	7	250		4	2	100		2	B7	DDT
TDD13C	809 231 600	G <sub>1</sub>	13	5	200		4	2	100		2	B7	DDT
TDD25	809 231 600	G <sub>1</sub>	25	1	100		4	2	100		2	B7	DDT
TD044	642 300 000		4	40	250		40	3	100		3	B4	T
TE094	642 310 000		4	16	200		12	1.3	100		1.3	B5	T
TE104	642 300 000		4	36	400		61	4	100		4	B4	T
TE244	642 310 000		4	3.5	200		6	2.4	150		2.4	B5	T
TE384	642 310 000		4	2	200		3	1.5	150		1.5	B5	T
TE424	542 310 000	A	4		200	100	3	2	100		2	B5	P
TE434	642 350 000		4	14	250	250	36		100	100 PenLF		B5	P
TE464	041 231 500	A	4		200	100	3	2.5	100	100	2.5	B7	P
TE474	041 231 500	A	4	1.5	200	100	4.5	2	100	100	2	B7	P
TE534	642 310 000	S	4	15	250	250	24		100	100 PenLF		B5	P
TE564	041 231 500	A	4	1.5	200	100	4.5	3.2	100	100	3.2	B7	P
TE634	045 231 600		4	22	250	250	36		100	100		B7	P
TE994	642 310 000		4	1.6	250		4	4	200		4	B5	T
TF64	061 231 500	G <sub>1</sub>	4	2.75	250	250	11	2	200	150	2	B7	P
TF104	642 300 000		4	36	400		61	4	100		4	B4	T
TH2	645 230 700	G <sub>1</sub>	2	1.5 1.5	150 250		0.95 4	1.2	150 150		1.2	B7	TH
TH4	645 231 700	G <sub>1</sub>	4	2 2	150 200	100	6 3.5	1.2	150 200	60 75	1.2	B7	TH
TH4A	645 231 700	G <sub>1</sub>	4	2	125 250	100	5 3.5	6	125 100		6	B7	TH
TH4B	645 231 700	G <sub>1</sub>	4	3 2.5	100 250	100	9 3.25	3.8	100 100	100	5.5	B7	TH
TH13C	645 231 700	G <sub>1</sub>	13	2 1.5	150 250	75	6 4.0	1.2 1.8	150 100	75	1.2	B7	TH
TH21C	645 231 700	G <sub>1</sub>	21	2 1.5	125 250	75	6 4	1.2 1.8	125 100	75	1.2	B7	TH
TH22C	645 231 700	G <sub>1</sub>	29	2	125 250	100	5 3.5	6	125 100		6	B7	TH
TH29	645 231 700	G <sub>1</sub>	29	2	125 250	100	3.5		125 100	100		B7	TH
TH30C	645 231 700	G <sub>1</sub>	29	2.5	100 250	100	9.5 3.25	5.5	100 100	100	5.5	B7	TH
TH31	217 640 530	G <sub>1</sub>	4	3 3	100 250	100	10.2 3	4 3	100 100		5.3 3	M08	TH
TH41	217 640 530	G <sub>1</sub>	4	3 3	100 250	100	10.2 3	4 3.1	100 100	100	5.3 3.1	M08	TH
TH62	027 546 310	G <sub>1</sub>	6	2 2	100 250	100	4.4 3	2.4	100 200	100	2.2 1.2	A08	TH
TH233	217 640 530	G <sub>1</sub>	23	0 2	100 150	100	4 2.6	5.3 3	100 100		5.3 3	M08	TH
TH2320	645 231 700	G <sub>1</sub>	23	3	90 150	100	4.5 3		80 100	90		B7	TH

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
TH232I	645 23I 700	G <sub>1</sub>	23	{ 3	90		4.5		80			B7	TH
TL54	045 23I 600		4	12.5	150	100	3		100	90		B7	P
TP22	57I 230 640	G <sub>1</sub>	2	{ 1	100		0.8	1.2	100	60	1.4		
TP23	645 230 700	G <sub>1</sub>	2	{ 1	125	60	1.2	1.0	150	60	1.3	B9	TP
TP25	207 640 530	G <sub>1</sub>	2	{ 1.0	100			2.1	100		2.1		
				{ 1.5	125	60	1.0	1.0	125	60	1.2	B7	TP
				{ 1.0	100	0	3.7	1.6	100	60	1.7		
				{ 1.5	125	60	1.0	1.0	125	60	1.0	M08	TP
TP26	207 640 530	G <sub>1</sub>	2	{ 1.0	125		2.2	1.5	125	60	1.3		
				{ 1.0	125	75	1.5	1.5	125	75	1.5	M08	TP
TP230	56I 230 740	G <sub>1</sub>	2	{ 0	100		2.0		100	60			
TP443	642 350 000		4	22	150	75	4.3	1.3	150	75	1.3	B9	TP
TP1340	57I 23I 640	G <sub>1</sub>	13	{ 2.5	250	250	36	5	100	PenLF	5	B5	P
TP2620	57I 23I 640	G <sub>1</sub>	26	{ 5.0	200	200	2.0	1.4	150	60	1.4	B9	TP
				{ 2.5	200		6.5		100	100			
				{ 4.0	250	200	1.5	1.4	150	60	1.4	B9	TP
					250		6.5	3.4	100	150	3.4		
TSP4	06I 23I 500	G <sub>1</sub>	4	2.5	200	200	8.0	4.7	100	150	4.7	B7	P
TT4	642 310 000		4	16	250		20	3.2	100		3.2	B5	T
TT4A	642 310 000		4	9	250		20	4.1	100		4.1	B5	T
TT1I	020 450 310	A	6	11	250	150	30	3.5	100	100	3.5	A08	P
TT12	204 53I 102	A	19	13	250	250	72	6	100	100	6	B9G	P
TT14	204 05I 103	A	6	13	250	250	72	6	100	100	6	B9G	P
TT15	24I 657 143		6	14	250	150	30	3.9	100	100	3.9	B9G	PP
TT19	24I 657 143		19	16.5	250	150	30	3.9	100	100	3.9	B9G	PP
TV03-10	442 310 000	A <sub>1</sub> A <sub>2</sub>	6	17	300		17	3.2	100		3	B5	TT
TW1	802 310 000		20				60		REC		20mA	B5	R
TW2	892 310 000		30				60		REC		20mA	B5	RR
TX4	645 23I 700	G <sub>1</sub>	4	{ 1.5	150		4		150			B7	TH
				{ 1.5	300	90	5.5		200	90			
TX2I	645 23I 700	G <sub>1</sub>	2I	{ 1.5	150		4		150			B7	TH
				{ 1.5	250	90	5.5		100	90			
TX4I	645 23I 700	G <sub>1</sub>	4	{ 3	100		9	3.8	100		5	B7	TH
				{ 2.5	250	100	3.25		250	100			
T4D	123 000 000	D <sub>1</sub>	4						D			B3G	D
T13U	023 100 060	G <sub>1</sub>	13	4	200		5.9	2.6	100		2.6	8SC	T
T4I	216 040 030		4		100		30	2KΩ	No Data Available			M08	Thyratron
T136	642 300 000		4	8	200		6	1.6	100		1.6	B4	T
UAF4I	268 154 130		13	2	200	90	5	2	100	100	1.9	B8A	DP
UAF42	268 154 130		13	2	200	90	5	2	100	100	1.9	B8A	DP
UBCI	206 08I 930	G <sub>1</sub>	13	1.7	200		3	2	150		2	A08	DDT
UBC4I	264 098 130		14	1.6	175		1.5	1.65	150		1.65	B8A	DDT
UBF2	206 58I 930	G <sub>1</sub>	12.5	2	250	100	5	1.8	100	150	1.8	A08	DDP
UBFI1	892 36I 450		20	2	200	75	5	1.8	200	75	1.8	F8	DDP
UBFI5	892 36I 450		27	2	250	100	12	5	200	100	5	F8	DDP

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
UBF80	541 236 891	G <sub>1</sub>	17	2	200	125	5	2.2	100	100	2.0	B9A	DDP
UBL1	206 581 930		55	11.5	200	200	55	8.5	100	100	8	A08	DDP
UBL3	023 189 560		55	6	100	100	29	7.5	100	90	7	8SC	DDP
UBL21	264 598 130		55	13	200	200	55	8	100	100	7	B8B	DDP
UB41	201 908 130		19				5		D			B8A	RR
UCC84	147 234 116	G <sub>1</sub>	22	1.5	90		12.0	6.0	100		6.0	B9A	TT
UCC85	641 237 410		26	2.1	200		10.0	5.8	100		5	B9A	TT
UCF12	642 371 450		20	{ 1.0 2.0	100 200	100	5.0	3.0 2.0	100 200	60 100	3.0 2.0	F8	TP
UCF80	645 237 114		19	{ 2.0 2.0	100 175	175	14.0 10.0	5.0 6.2	100 100	60 150	5.0 6.0	B9A	TP
UCH4	217 544 630		20	{ 2 2	100 200	100	6 5.2	3 2.2	80 100		3.2 2.2	A08	TH
UCH21	276 454 131		20	{ 2 2	100 200	90	6.4 5.2	2.2 2.2	100 100		3.2 2.2	B8B	TH
UCH41	276 454 130		14	{ 2 2	100 200	90	6.4 2.7	2.2 1.5	100 100	90 75	2.2 1.5	B8A	TH
UCH42	276 454 130		14	{ 0 1.85	100 175	75	10.0 2.1	0.3 0.67	100 100		2.8 1.5	B8A	TH
UCH81	541 237 464		19	{ 0 2.6	100 200	125	13.5 7.6	3.7 2.4	100 100		3.7 2.4	B9A	TH
UCL11	452 371 460		60	{ 2.0 8.5	200 200	200	2.0 45.0	2.1 9.0	150 100	60 100	2.0 7.0	F8	TP
UDH	802 310 000		20				60		REC		20mA	B5	R
UDT1	023 186 090	G <sub>1</sub>	15	3	200		10.3	3	150		3	8SC	DDT
UE2	123 180 090		50				60		REC		20mA	8SC	RR
UF5	023 110 560	G <sub>1</sub>	12.5	2.5	100	100	3.2	2.2	100	100	2.2	8SC	P
UF6	023 110 560	G <sub>1</sub>	12.5	2	100	100	3	1.8	100	100	1.8	8SC	P
UF9	206 501 130	G <sub>1</sub>	12.5	2.5	200	100	6	2.2	100	100	2.2	A08	P
UF10	023 110 560	G <sub>1</sub>	12.5	2.4	200	100	5.5	2.35	100	100	2.3	8SC	P
UF11	602 301 450		15	2	200	75	6	2.2	100	100	2	F8	P
UF21	265 104 130		12.5	2.5	200	100	6	2.2	100	100	2.2	B8B	P
UF41	26* *54 130		12.5	3	200	125	7.2	2.3	100	150	2.3	B8A	P
UF42	260 154 130		21	2	175	175	10	8.5	100	150	8	B8A	P
UH4	893 200 000		4				5		D			B5	RR
ULP	642 310 000		13	20	250		27	4	100		4	B5	T
UL1	206 540 130		60	11.5	200	200	55	8.5	100	PenLF	8	A08	P
UL2	023 104 560		35	5	200	200	20	7	100	PenLF	6	8SC	P
UL12	602 301 450		60	8	200	125	75	12	No Data Available			F8	P
UL21	265 004 130		45	13	200	200	55	8	100	PenLF	7	B8B	P
UL22	265 004 130		46	10.0	175	175	61.0	9.0	100	100	8.0	B8B	P
UL41	26* *54 130		45	9	175	175	54.5	9.5	100	100	7	B8A	P
UL44	200 154 130	A	45	13.5	175	175	28.5	7.0	100	100	6.5	B8A	P
UL46	261 054 130		45	9	175	175	54.5	9.5	100	100	7	B8A	P
UPX	642 310 000		25	34	250		38	7	100		7	B5	T
UP2	023 140 560		25	19	200	100	40	3	100	75	3	8SC	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
URIC	802 310 000		20				60		REC		20mA	B5	R
UR3C	091 231 800		30				60		REC		20mA	B7	RR
UT2	023 100 060	G <sub>1</sub>	15	5	200		6	3	100		3	8SC	T
UU2	892 300 000		4				30		REC		15mA	B4	RR
UU3	892 300 000		4				30		REC		15mA	B4	RR
UU4	892 300 000		4				60		REC		20mA	B4	RR
UU5	892 300 000		4				60		REC		20mA	B4	RR
UU6	208 090 030		4				60		REC		20mA	M08	RR
UU7	208 090 030		4				60		REC		20mA	M08	RR
UU8	208 090 030		4				120		REC		30mA	M08	RR
UU9	290 008 130		6				30·0		REC		15mA	B8A	RR
UU10	892 300 000		4				60		REC		20mA	B4	RR
UU30/250	892 300 000		4				15		REC		10mA	B4	RR
UU60/250	892 300 000		4				30		REC		15mA	B4	RR
UU120/350	892 300 000		4				60		REC		20mA	B4	RR
UU120/500	892 300 000		4				60		REC		20mA	B4	RR
UY1	388 028 120		50				120		REC		30mA	A08	R
UY1(N)	388 028 120		50				120		REC		30mA	A08	R
UY11	802 300 100		50				120		REC		35mA	F8	R
UY21	280 80* 130		50				120		REC		30mA	B8B	R
UY31	020 080 310		50				120		REC		30mA	A08	R
UY41	280 000 130		31				60		REC		20mA	B8A	R
UY42	280 °0° 130		31				60		REC		20mA	B8A	R
U4C	642 300 000		4	12	200		35	3·2	100		3·2	B4	T
U5	892 300 000		5				15		REC		12mA	B4	RR
U8	892 300 000		7·5				60		REC		20mA	B4	RR
U9	892 300 000		4				30		REC		15mA	B4	RR
U10	892 300 000		4				30		REC		15mA	B4	RR
U12	892 300 000		4				60		REC		20mA	B4	RR
U12/14	892 300 000		4				60		REC		20mA	B4	RR
U14	892 300 000		4				60		REC		20mA	B4	RR
U15	802 300 000		6				120		REC		30mA	B4	R
U16	002 300 000	D <sub>1</sub>	2				5		REC		5mA	B4	R
U17	002 300 000	D <sub>1</sub>	4				30		REC		15mA	B4	R
U18	892 300 000		4				120		REC		30mA	B4	RR
U18/20	892 300 000		4				120		REC		30mA	B4	RR
U19	002 300 000	D <sub>1</sub>	4				120		REC		40mA	B4	R
U19/23	002 300 000	D <sub>1</sub>	4				120		REC		30mA	B4	R
U20	892 300 000		4				60		REC		20mA	B4	RR
U21	002 300 000	D <sub>1</sub>	2				5		REC		5mA	B4	R
U22	200 000 030	D <sub>1</sub>	2						D			M08	D
U22FH	200 000 030	D <sub>1</sub>	2						D			M08	D
U23	002 300 000	D <sub>1</sub>	4				120		REC		30mA	B4	R
U24	020 000 300	D <sub>1</sub>	2				1·0		REC		2mA	A08	R

VALVE	SELECTOR SWITCH No.	T.C.	VF	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
U25	023 000 000	D <sub>1</sub>	2						D			B3G	D
U26	391 221 800		13				60		REC		20mA	B7	RR
U29	002 300 000		2				15		REC		30mA	B5	R
U30	391 221 800		13				60		REC		20mA	B7	RR
U31	020 080 310		26				120		REC		30mA	A08	R
U33	002 300 000	D <sub>1</sub>	2				3		D			B4	R
U35	020 000 030	D <sub>1</sub>	1.4				2		D			A08	R
U37	023 000 000	D <sub>1</sub>	1.4				0.5		D			B2G	D
U43	023 000 000		6				0.5		D			B2G	D
U50	020 908 030		5				60		REC		20mA	A08	RR
U52	030 908 020		5				120		REC		30mA	A08	RR
U70	028 090 310		6				30		REC		15mA	A08	RR
U71	020 080 310		30				60		REC		20mA	A08	R
U74	020 080 310		30				120		REC		30mA	A08	R
U76	020 080 310		30				120		REC		30mA	A08	R
U78	802 309 100		6				30		REC		15mA	B7G	RR
U81	009 008 230		6				60		REC		20mA	B8B	RR
U82	209 008 130		6				30		REC		15mA	B8B	RR
U84	009 **8 230		4				30		REC		15mA	B8B	RR
U101	280 008 130		50				120		REC		30mA	B8B	R
U107	281 008 300		40				60		REC		20mA	B7G	R
U134	028 190 310		13				60		REC		20mA	A08	RR
U142	280 000 130		31				60		REC		20mA	B8A	R
U143	020 908 030		4				30		REC		15mA	A08	RR
U145	280 000 130		40				60		REC		20mA	B8A	R
U147	028 090 310		6				30		Rec		15mA	A08	RR
U149	209 008 130		6				30		REC		15mA	B8B	RR
U150	280 009 130		6				30		Rec		17mA	B8A	RR
U151	023 000 000	D <sub>1</sub>	6						D			B8G	D
U152	001 230 008		19				120		REC		35mA	B9A	R
U153	*** 23* **8	C	17				120		REC		35mA	B9A	R
U154	**1 23* **8		19				120		REC		35mA	B9A	R
U201	020 080 310		20				60		REC		20mA	A08	R
U251	*** 23* **8	C	25				120		REC		30mA	B9A	R
U281	020 080 310		28				120		Rec		30mA	A08	R
U282	001 000 230	D <sub>1</sub>	28				120		REC		36mA	A08	R
U301	0** 080 230	C	30				120		REC		35mA	A08	R
U309	**1 23* **8		20				120		Rec		38mA	B9A	R
U319	001 230 008		20				120		REC		40mA	B9A	R
U329	**2 3** **8	C	25				120		REC		35mA	B9A	R
U403	201 080 030		40				120		REC		30mA	M08	R
U404	280 *** 130		40				60		REC		20mA	B8A	R
U415	642 300 000		4	10.5	150		5	1.4	100		1.4	B4	T
U418	642 300 000		4	13	150		10	1.6	100		1.6	B4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
U650	802 300 000		6				30		REC		15mA	B4	R
U709	8*1 23* 9**		6				60		REC		20mA	B9A	RR
U801	128 899 310		80				120		REC		30mA	A08	RR
U4020	802 310 000		40				120		REC		30mA	B5	R
VCI	023 100 060	G <sub>1</sub>	55	2	200		6	3	200		3	8SC	T
VDSB	542 310 000	A	16		200	75		3	100	75	3	B5	P
VDS	542 310 000	A	16	2	200	75		1.6	100	75	1.6	B5	P
VHP13	041 231 500	A	13	1.5	200	100	4	2	100	100	4	B7	P
VHTA	123 164 550	G <sub>1</sub>	13	1.5	250	100	3.2		100	100		8SC	H
VHTA	545 231 600	G <sub>1</sub>	13	1.5	200	100	3.2		100	100		B7	H
VHTS	645 231 500	G <sub>1</sub>	13	3	200	100	2.6		100	100		B7	H
VHT2	645 230 600	G <sub>1</sub>	2		125	75			100	75		B7	H
VHT2A	645 230 600	G <sub>1</sub>	2	0	125	50			100	60		B7	H
VHT4	545 231 600	G <sub>1</sub>	4	3	200	100	3.6		100	100		B7	H
VLS61	002 300 000	D <sub>1</sub>	2				3		D			B4	R
VMP4	041 231 500	A	4	2	250	100	3	3.5	150	100	3.5	B7	P
VMP4	542 310 000	A	4	1	250	100		3.5	200	100	3.5	B5	P
VMP4G	041 231 500	A	4	2	250	100	8	2.7	100	100	2.7	B7	P
VMS4	542 310 000	A	4	1	200	80	14	2.4	200	75	2.4	B5	P
VMS4B	542 310 000	A	4	1	200	80	8	2.9	200	75	2.9	B5	P
VMI	2** 00* 300	D <sub>1</sub>	1.4						D			B7G	D
VM4V	542 310 000	A	4	1	200	80	14	2.4	200	75	2.4	B5	P
V02	645 320 600	G <sub>1</sub>	2	0	150	90	1.8		150	90		B7	O
V02S	023 064 560	G <sub>1</sub>	2	0	150	50	2.0		No Data Available			8SC	O
V04	645 231 500	G <sub>1</sub>	4	1.5	250	75	1.6		100	75		B7	O
V04S	023 154 560	G <sub>1</sub>	4	1.5	250	75	1.6		100	75		8SC	O
V06	123 164 560	G <sub>1</sub>	6	3	100	100	4.6		100	100		8SC	O
V013	645 231 500	G <sub>1</sub>	13	1.5	250	75	1.6		100	75		B7	O
V013(S)	123 154 560	G <sub>1</sub>	13	1.5	250	75	1.6		100	75		8SC	O
VPTA	041 231 500	A	13	2	250	100	4.2	2.9	100	100	2.9	B7	P
VPTS	041 231 500	A	13	3	200	100	5.5	2.6	100	90	2.6	B7	P
VPT2	542 300 000	A	2	1.5	125	60	1.5	1.1	125	60	1.1	B4	P
VPT2	041 230 500	A	2	1.5	125	60	1.5	1.1	125	60	1.1	B7	P
VPT4	542 310 000	A	4	3	250	100	5.5	2	100	90	2	B5	P
VPT4	041 231 500	A	4	3	250	100	5.5	2	100	90	2	B7	P
VPT4B	041 231 500	A	4	3	250	100	6	3.2	100	90	3.2	B7	P
VP2	041 230 500	A	2	1	150	150	3	1.5	150	150	1.5	B7	P
VP2B	061 230 500	G <sub>1</sub>	2	1.0	150	150	2.5	0.65	150	150	0.6	B7	P
(MUL)VP2B	065 231 500	G <sub>1</sub>	2	1.5	150	60	2	1.4	100	60	1.4	B7	H
VP2B	032 004 560		2	1.5	150	150	2.5	0.65	150	150	0.6	8SC	P
VP2BS	032 010 560	G <sub>1</sub>	2	1	150	150	2.5	0.65	150	150	0.6	8SC	P
VP2D	061 230 500	G <sub>1</sub>	2	1.5	150	75	1.3	2.0	150	75	2	B7	P
VP4	542 310 000	A	4	2	200	100	4.5	2.3	100	100	2.3	B5	P
VP4	041 231 500	A	4	2	200	100	4.5	2.3	100	100	2.3	B7	P
VP4A	542 310 000	A	4	2	200	100	4.25	2.5	100	100	2.5	B5	P



VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
VP4A	041 231 500	A	4	2	200	100	4.25	2.5	100	100	2.5	B7	P
VP4B	061 231 500	G <sub>1</sub>	4	3	250	250	11.5	2	100	150	2	B7	P
VP4C	041 231 500	A	4	2	250	250	11.5	4	100	150	4	B7	P
VP4S	023 110 560	G <sub>1</sub>	4	3	250	100	8	1.8	100	90	1.8	8SC	P
VP4S	061 231 500	G <sub>1</sub>	4	3	250	100	8	1.8	100	90	1.8	B7	P
VP6	412 361 500		6	2.5	250	200	8	2.1	100	150	2.1	B7G	P
VP6	061 231 500	G <sub>1</sub>	6	3	250	100	7.5	1.7	200	100	1.7	B7	P
VP6S	023 110 560	G <sub>1</sub>	6	3	250	100	7.5	1.75	200	100	1.7	8SC	P
VPI2D	026 985 310	G <sub>1</sub>	13	3	250	125	9	1.1	100	100	1.1	A08	DDP
VPI3	041 231 500	A	13	1.5	200	100	6.3	3	100	100	3	B7	P
VPI3	061 231 500	G <sub>1</sub>	13	3	200	100	8	2.8	100	100	2.8	B7	P
VPI3A	023 110 560	G <sub>1</sub>	13	2	200	100	4	2.2	100	100	2.2	8SC	P
VPI3B	061 231 500	G <sub>1</sub>	13	2	200	200	9	2.2	200	200	2.2	B7	P
VPI3C	061 231 500	G <sub>1</sub>	13	2	200	200	9	2.2	200	200	2.2	B7	P
VPI3K	061 231 500	G <sub>1</sub>	13	3	200	100	8	2	100	100	2	B7	P
VPI3S	061 231 500	G <sub>1</sub>	13	3	200	100	8	2.8	100	100	2.8	B7	P
VPI3S	023 110 560	G <sub>1</sub>	13	3	200	100	8	2.8	100	100	2.8	8SC	P
VP20	542 310 000	A	20	2	200	100	4	2.2	200	100	2.2	B5	P
VP21	041 230 500	A	2	1	150	60	2.8	1.1	150	60	1.1	B7	P
VP22	206 510 030	G <sub>1</sub>	2	1.5	125	60	1.2	0.8	100	60	0.8	M08	P
VP23	206 510 030	G <sub>1</sub>	2	1.5	125	60	1.4	1.0	100	60	1.0	M08	P
VP4I	216 510 030	G <sub>1</sub>	4	2.7	250	200	7.7	2.0	100	150	2	M08	P
VP4I	061 231 500	G <sub>1</sub>	4	3.5	250	250	11	3.1	100	200	3.1	B7	P
VPI33	216 510 030	G <sub>1</sub>	13	2.7	150	150	8	2.1	100	100	2.1	M08	P
VP210	041 230 500	A	2	1.5	125	60	1.1	0.82	100	60	0.8	B7	P
VP210	542 300 000	A	2	1.5	125	60	1.1	0.82	125	60	0.82	B4	P
VP215	542 300 000	A	2	1	150	75	3.75	1.25	150	75	1.25	B4	P
VP215	041 230 500	A	2	1	150	75	3.75	1.25	150	75	1.25	B7	P
VP215B	061 230 500	G <sub>1</sub>	2	1	125	125	3.25	1.2	125	100	1.2	B7	P
VP215C	041 230 500	A	2	1	125	125	3.25	1.2	125	100	1.2	B7	P
VPI320	041 231 500	A	13	2.7	250	100	5	2	100	100	2	B7	P
VPI321	041 231 500	A	13	2.8	250	200	7.4	2	150	150	2	B7	P
VPI322	061 231 500	G <sub>1</sub>	13	2.8	250	200	7.4	2	100	100	2	B7	P
VSGAI	542 310 000	A	4	1.5	200	100	7	6.15	100	100	6	B5	P
VS2	542 300 000	A	2	2.5	125	60	2	1.4	100	60	1.4	B4	P
VS24	542 300 000	A	2	1	150	75	4.4	1.5	150	75	1.5	B4	P
VS24K	542 300 000	A	2	1	150	75	4.4	1.5	150	75	1.5	B4	P
VS215	542 300 000	A	2	1	150	75	6	1.0	150	75	1.0	B4	P
VTP4	542 310 000	A	4	3	200	100	5.5	2	100	100	2	B5	P
VT1	642 310 000		4	5	200		5	2	100		2	B5	T
VT2	642 310 000		4	2	200		3	1.9	150		1.9	B5	T
VX2	061 235 500	G <sub>1</sub>	2	1	150	60	1		150	60		B7	P
VX2S	023 015 560	G <sub>1</sub>	2	1	150	60	1		150	60		8SC	P
VX4	515 231 600	G <sub>1</sub>	4	2	250	75	1.8		100	75		B7	P
VX4S	023 115 560	G <sub>1</sub>	4	2	250	75	1.8		100	75		8SC	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
VX6S	023 115 560	G <sub>1</sub>	6	3	250	100	1.85	4	100	100	4	8SC	P
VX13	515 231 600	G <sub>1</sub>	13	2	250	75	1.8		100	75		B7	P
VX13S	023 115 560	G <sub>1</sub>	13	2	250	75	1.8		100	75		8SC	P
VY1	023 100 080		55				60		REC		20mA	8SC	R
V20s	023 100 080		20				60		REC		20mA	8SC	R
V20	802 310 000		20				60		REC		20mA	B5	R
V20/7000	002 300 000	D <sub>1</sub>	4				15		REC		10mA	B4	RR
V25	081 231 900		25				60		REC		20mA	B7	RR
V30	802 310 000		30				120		REC		30mA	B5	R
V99	263 400 000		3	4.5	90		2.5	0.425	80		0.4	UX4	T
V226	041 230 500	A	6	5	400	250	14	3	100	150	3	B7	P
V245	041 230 500	A	3		250	250	16	5	100	PenLF	5	B7	P
V248A	200 540 030	A	2	10	150	150	32	5.2	100	100	5	M08	P
V312	602 310 000	G <sub>1</sub>	4	4.8	250		6	2.3	100		2.3	B5	T
V339	000 231 600	G <sub>1</sub>	4		250			1.7	100		1.7	B7	T
V453	206 510 030	G <sub>1</sub>	4	1.75	250	100	4.5	2.0	100	100	2	M08	P
V503	642 300 000		4	85	400		100	4.5	100		4.5	B4	T
V872	216 510 030	G <sub>1</sub>	6	4	200	200	6.7	3.35	100	150	3.3	M08	P
V914	892 310 000		4						D			B5	DD
V960	002 300 000	D <sub>1</sub>	4				60		REC		20mA	B4	R
V1120	045 231 000	A	6	9.75	200	200	40	8.7	100	100	7	B7	P
V1120B	040 231 500	A	4	9.75	200	200	40	8.7	100	100	7	B7	P
V1906	002 300 000	D <sub>1</sub>	4				60		REC		20mA	B4	R
V1907	002 300 000	D <sub>1</sub>	4				60		REC		20mA	B4	R
V2018	002 300 000	D <sub>1</sub>	20				30		REC		15mA	B4	R
V2118	802 310 000		20				60		REC		20mA	B5	R
WD30	560 231 890	G <sub>1</sub>	13	1	250	100	7	2.6	250	100	2.6	B9	DDP
WD40	560 231 890	G <sub>1</sub>	4	1	250	100	7	3.5	100	100	3.5	B9	DDP
WD142	268 154 130		13	2	175	90	5	2.1	100	100	1.9	B8A	DP
WD150	268 154 130		6	2	250	100	5	2.1	100	100	2	B8A	DP
W17	265 024 300		1.4	1	90	75	3.5	0.9	80	75	0.9	B7G	P
W21	041 230 500	A	2	1	150	125	3.6	1.4	150	100	1.4	B7	P
W21	542 300 000	A	2	1	150	125	3.6	1.4	150	100	1.4	B4	P
W30	041 231 500	A	13	1	250	250	12	4	250	250	4	B7	P
W31	041 231 500	A	13	3	250	100	8	2.7	100	90	2.7	B7	P
W42	061 231 500	G <sub>1</sub>	4	3	250	125	7.6	1.5	100	100	1.5	B7	P
W61	026 510 310	G <sub>1</sub>	6	3	250	75	8.5	2.9	100	75	2.9	A08	P
W63	026 510 310	G <sub>1</sub>	6	3	250	100	7.6	1.5	100	90	1.5	A08	P
W76	026 510 310	G <sub>1</sub>	13	3	250	100	7.6	1.5	200	100	1.5	A08	P
W77	412 361 500		6	2	200	200	8	2.5	100	150	2.5	B7G	P
W81	265 104 130		6	3.0	250	100	8	2.8	100	90	2.8	B8B	P
W101	265 104 130		19	3	250	100	8	2.8	100	90	2.8	B8B	P
W107	412 361 500		12.5	2.5	200	200	8	2.5	100	150	2.5	B7G	P
W142	261 154 130		12	3.0	250	250	7.2	2.2	100	150	2.2	B8A	P
W143	265 104 130		6	2.5	250	100	6	2.2	100	100	2.2	B8B	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
W145	260 154 130	G <sub>1</sub>	13	2.5	175	100	7	2.3	100	100	2.3	B8A	P
W147	026 510 310		6	2.5	250	100	6	2.2	100	100	2	A08	P
W148	265 104 130		6	2.5	250	150	9.5	3.8	100	150	3.8	B8B	P
W149	265 104 130		6	3	250	100	8.5	1.75	100	90	1.7	B8B	P
W150	261 154 130		6	2.5	250	100	6.0	2.2	100	150	2.2	B8A	P
W213	642 300 000	G <sub>1</sub>	2	2.5	150		1	1.2	150		1.2	B4	T
W318	809 231 600		4	2	100		3.5	2.5	100		2.5	B7	DDT
W727	412 365 100		6	1.0	250	100	11.0	4.4	100	100	4.4	B7G	P
XD	642 300 000		2	1.5	75		0.65	0.75	80		0.7	Sm4	T
XD2.0V	642 300 000		2	1	50		0.45	0.56	No Data Available			Sm4	T
XH2.0V	642 300 000		2	1	50		2.5	0.56	No Data Available			Sm4	T
XL	642 300 000		2	1.5	75		1.5	0.85	80		0.8	Sm4	T
XL02.0V	642 300 000		2	1	50		1.1	0.92	No Data Available			Sm4	T
XL2.0V	642 300 000		2	1	50		1.0	0.84	No Data Available			Sm4	T
XP	642 300 000		2	4.5	75		4	1	80		1	Sm4	T
XP2	642 300 000		2	4.5	75		4	1	80		1	Sm4	T
XP2.0V	642 300 000		2	3	50		2	1.0	No Data Available			Sm4	T
XSG	542 300 000	A	2		125	60	1.75	0.6	100	60	0.6	Sm4	P
XSG2.0V	542 300 000	A	2	0	50	30	0.6	0.4	No Data Available			Sm4	P
XVS2.0V	542 300 000	A	2	1	50	30	0.4	0.33	No Data Available			Sm4	P
XW2.0V	251 630 000	G <sub>1</sub>	2	1	50	50	0.95	0.6	No Data Available			Sm5	P
XXD	216 447 130		12.5	10	250		9	2.1	100		2.1	B8B	TT
XXL	260 004 130		6	8	250		8	2.3	100		2.3	B8B	T
XY	254 630 000		2	3	75	75	2		80	60	1	Sm5	P
XY2.0V	246 530 000		2	2	50	50	1.75	2.4	No Data Available			Sm5	P
X14	026 546 300	G <sub>1</sub>	1.4	0	90	50	1.8	0.5	80	60	0.5	A08	H
X17	266 424 300		1.4	4	80		4.5	1.2	80		1.4	B7G	H
X18	266 464 300		1.4	0	80			1.4	80		1.4	B7G	H
X21	645 230 600	G <sub>1</sub>	2	0	150	75			100	75		B7	H
X22	645 320 600	G <sub>1</sub>	2	0	150	75			100	75		B7	H
X23	645 231 700	G <sub>1</sub>	2	{ 1.5	100		2.1		100			B7	TH
					150	60	0.7		100	60			
X24	645 231 700	G <sub>1</sub>	2	{ 1.5	100		2.1		100			B7	TH
					150	60	0.7		100	60			
X30	645 231 600	G <sub>1</sub>	13	3	150	75	7		100	75		B7	H
X31	645 231 700	G <sub>1</sub>	13	{	150		2.2		150			B7	TH
					250	75	2.3		100	75			
X32	645 231 600	G <sub>1</sub>	13	3	150	75	7		100	75		B7	H
X41	645 231 700	G <sub>1</sub>	4	{ 3	150		5	1.4	150		1.8	B7	TH
					250	75	2.3	1.4	100	75	2.0		
X42	645 231 600	G <sub>1</sub>	4	3	250	100	7.0	2.0	100	100	2.0	B7	H
X61	027 546 600		6	{ 2.0	100		5.4	2.2	100		2.2		
					250	100	3.0	0.65	150	100	0.65	A08	TH
X63	026 545 310	G <sub>1</sub>	6	3	250	100	6	1.6	100	100	1.6	A08	H
X64	026 540 310	G <sub>1</sub>	6	3	250	100	5.3	1.1	100	100	1.1	A08	H
X65	027 546 310	G <sub>1</sub>	6	{ 1	100		8	2.5	100		1	A08	TH
					250	100	4	1.2	100	100	0.5		

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
X66	027 546 310	G <sub>1</sub>	6	{ 1 3	100 250	100	8 4	2.5 1.2	100 100	100	1.3 1.0	A08	TH
X71	027 546 310	G <sub>1</sub>	15	{ 3 3	100 250	100			100 150	100		A08	TH
X73	026 546 310	G <sub>1</sub>	6	3	150	75			100	75		A08	H
X76	027 546 310	G <sub>1</sub>	13	{ 1.0 3.0	100 250	100	8.0 4.0	2.5 1.2	100 100	100	3.0 1.6	A08	TH
X77	412 366 100		6	2	100		12	6.5	100		6.5	B7G	H
X78	542 376 400		6	{ 2.0 1.0	100 125	75	5.0 5.3	2.2 2.2	100 100	75	2.8 2.0	B7G	TH
X79	541 237 46*		6	{ 2 3	100 250	75	5 2.9	2.2	100 100	75	2.8 2	B9A	TH
X81	276 454 130		6	{ 1.0 2.0	100 250	100	4.8 4.0	1.4 2.0	100 100	100	1.65	B8B	TH
X101	276 454 130	G <sub>1</sub>	19	{ 2 3	100 250	100	3 3		100 100	100		B8B	TH
X108	542 376 400		19	{ 2 1	100 250	75	5 5.3	2.2 2.2	100 100	75	2.2 1.6	B7G	TH
X109	541 237 46*		19	{ 2 3	100 250	75	5 2.9	2.2	100 100	75	2.8	B9A	TH
X142	276 454 130		14	{ 0 2.0	200 200	75	5.5 3.0	0.3 0.67	100 100	75	2.8 1.5	B8A	TH
X143	276 454 131		6	{ 2 2	100 250	90	6.25 5.3	2.4 2.2	100 100	100	3.2 2.2	B8B	TH
X145	276 454 130		28	{ 3.3 2.5	100 175	100	6.0 8.0	3.0 2.5	100 100	100	3 2.5	B8A	TH
X147	027 546 310	G <sub>1</sub>	6	{ 2 2	100 250	100	5.4 5	2.2 2.4	100 100	100	2.8 1.2	A08	TH
X148	276 454 130		6	{ 1 2	100 250	100	4.8 4.0	1.4 2.0	100 100	100	1.6	B8B	TH
X150	276 454 130		6	{ 2 2	100 250	100	6.8 9	2.6 3.5	100 100	100	2.8 3.5	B8A	TH
X727	412 366 100		6	2	100		11.0	7	100		5	B7G	H
Y13	045 231 600		13	22	250	250	35		100	150		B7	P
Y220	642 300 000	S	2	4.5	150	150	10.5		100	100		B4	P
Y220	642 350 000		2	4.5	150	150	10.5		100	100		B5	P
Y230	642 350 000		2	3	150	150	7		100	100		B5	P
ZD	892 310 000		13						D			B5	DD
ZD17	208 564 300		1.4	1	90	90	2.7	0.63	80	90	0.6	B7G	DP
ZD152	541 236 891		6	2	250	90	5	2.2	100	90	2.2	B9A	DDP
Z14	036 500 200	G <sub>1</sub>	1.4	1	90	90	1.2	0.75	80	90	0.7	A08	P
Z21	542 300 000	A	2	1	150	125	2.5	1.7	150	100	1.7	B4	P
Z22	041 230 500	A	2	1	150	125	2.5	1.7	150	100	1.7	B7	P
Z26	045 231 600		26	5.5	250	250	32		100	PenLF		B7	P
Z62	026 510 310	G <sub>1</sub>	6	2	300	150	10	7.5	100	125	7.5	A08	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE	
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V			
Z63	026 500 310	G <sub>1</sub>	6	2	250	100	1.0	1.23	100	100	1.2	A08	P	
Z66	026 510 310	G <sub>1</sub>	6	1.5	200	200	10.9	8.5	100	150	8.0	A08	P	
Z73	026 510 310	G <sub>1</sub>	6	3	250	100	6.5	1.7	100	90	1.7	A08	P	
Z77	412 361 500		6	2	250	250	10	7.5	100	150	5.0	B7G	P	
Z90	256 101 403		6	2	250	250	10	6.0	100	150	6.0	B9G	P	
Z142	260 154 130		21	2	175	175	10	8.5	100	150	8	B8A	P	
Z145	261 514 130		22	1.8	200	200	10	9	100	150	7	B8A	P	
Z150	260 154 130		6	2	250	250	10	9.5	100	150	8	B8A	P	
Z152	141 230 561		6	2.0	170	170	10.0	7.4	100	100	6.0	B9A	P	
Z220	642 300 000	S	2	6	150	150	18		100	100		B4	P	
Z220	642 350 000		2	6	150	150	18		100	100		B5	P	
Z309	141 223 651		6	2	250	250	20	15	No data available			B9A	P	
Z719	141 230 651		6	2	175	175	10	7.4	100	150	6	B9A	P	
Z729	501 236 014		6	1.0	250	100	3.0	1.85	100	100	1.8	B9A	P	
OZ4	007 060 010		—		250		58	3K $\Omega$				A08	CCR	
00A	364 200 000		5	0	45		1.5	0.66	No Data Available			UX4	T	
01A	364 200 000		5	4.5	90		2.5	0.725	80		0.72	UX4	T	
I	281 300 000		6				60		REC		20mA	UX4	R	
IAB5	365 004 220		1.2	1.5	150	150	6.8	1.35	No Data Available			B8B	P	
IAC6	266 464 300		1.4	4.0	60		4		80			B7G	H	
IAF4	265 024 300		1.4	0	90	90	1.65	0.95	80	90	0.9	B7G	P	
IAF5	208 564 300		1.4	0	90	90	1.1	0.6	80	90	0.6	B7G	DP	
IAX2	230 232 032	D <sub>1</sub>	1.4						D			B9A	D	
IA3	281 008 300		1.4						D			B7G	D	
IA4E	365 200 000	G <sub>1</sub>	2	3	150	75	2.2	0.65	100	75	0.6	UX4	P	
IA4P	365 200 000	G <sub>1</sub>	2	3	90	75	2.2	0.72	80	75	0.7	UX4	P	
IA4T	265 300 000	G <sub>1</sub>	2	3	150	75	2.2	0.625	100	75	0.6	UX4	P	
IA5	036 540 200		1.4	4.5	90	90	4	0.85	80	75	0.8	A08	P	
IA6	266 453 000	G <sub>1</sub>	2	0	150	75	3	0.425	80	60	0.4	UX6	P	
IA7	026 546 300	G <sub>1</sub>	1.4	0	90	50	1.8	0.55	80	60	0.5	A08	H	
IB4P	365 200 000	G <sub>1</sub>	2	3	90	75	1.6	0.6	80	60	0.6	UX4	P	
IB4(T)	265 300 000	G <sub>1</sub>	2	3	175	75	1.7	0.65	100	60	0.6	UX4	P	
IB5	268 943 000		2	3	150		0.8	0.57	100		0.5	UX6	DDT	
IB6	265 406 300		1.4	1.5	90	75	1.5	0.75	80	75	0.75	B7G	P	
IB7	026 546 300	G <sub>1</sub>	1.4	0	90	50	1.5	0.875	80	60	0.8	A08	H	
IB8	037 546 280		1.4	{	0	90	0	0.15	0.27	80		0.15	A08	PDT
					6	90	90	6.3	1.15	80	75	1.1		
IC1	266 424 300		1.4	4	75		4.5	1.2	80		1.4	B7G	H	
IC2	266 464 300		1.4	0	75			1.4	80		1.4	B7G	H	
IC3	260 406 300		1.4	3	90		1.4	0.76	80		0.7	B7G	T	
IC4	365 200 000	G <sub>1</sub>	2	0	175	75	2.5	1	150	75	1	UX4	P	
IC5	036 540 200		1.4	7.5	90	90	7.5	1.55	80	75	1.5	A08	P	
IC6	366 452 000	G <sub>1</sub>	2	0	175	75		1.05	150	75	1.05	UX6	P	

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
IC7	026 546 300	G <sub>1</sub>	2	0	175	75		1.05	150	75	1.05	A08	P
ID4	264 530 000		2	6	175	175	9.5		100	100		UX5	P
ID5	802 310 000		40				120		REC		30mA	B5	R
ID5GP	036 500 200	G <sub>1</sub>	2	3	90	75	2.2	0.72	80	60	0.7	A08	P
ID5GT	036 500 200	G <sub>1</sub>	2	3	150	75	2.2	0.65	100	60	0.6	A08	P
ID6	280 183 000		25				60		REC		20mA	UX6	R
ID7	036 546 200	G <sub>1</sub>	2	0	150	75	3	0.425	150	75	1.05	A08	P
ID8	037 546 280	G <sub>1</sub>	1.4	9	90	0	1.1	0.575	80		0.5	A08	DTP
					90	90	5	0.925	80	75	0.9		
ID13	281 0*8 300		1.4						D			B7G	D
IE4	026 040 300		1.4	3	90		1.4	0.76	80		0.76	A08	T
IE5GP	036 500 200	G <sub>1</sub>	2	3	90	75	1.6	0.6	80	60	0.6	A08	P
IE5	036 500 200	G <sub>1</sub>	2	3	175	75	1.7	0.65	100	60	0.6	A08	P
IE7	036 447 250		2	4.5	150	150	7.5	1.425	100	100	1.4	A08	PP
IFD1	2*8 564 300		1.4	1.5	60	60	0.17	0.17	80	60	0.17	B7G	DP
IFD9	208 564 300		1.4	1	75	75	1.6	0.63	80	75	0.63	B7G	P
IF1	265 *24 300		1.4	0	60	60	1.65	0.75	80	60	0.75	B7G	P
IF2	265 024 300		1.4	1	90	75	2.9	0.92	80	75	0.92	B7G	P
IF3	265 024 300		1.4	1	90	50	1.8	0.75	80	60	0.75	B7G	P
IF4	364 520 000		2	3	90	90	4	1.4	80	75	1.4	UX5	P
IF5	036 540 200		2	3	90	90	4	1.4	80	75	1.4	A08	P
IF6	365 892 000	G <sub>1</sub>	2	1.5	175	75	2.2	0.65	150	75	0.6	UX6	DDP
IF7	036 985 200	G <sub>1</sub>	2	1.5	175	75	2.2	0.65	150	75	0.6	A08	DDP
IF7GV	036 895 200	G <sub>1</sub>	2	1.5	175	75	2.2	0.65	150	75	0.6	A08	DDP
IG4	036 040 200		1.4	6	90		2.3	0.825	80		0.825	A08	T
IG5	036 540 200		2	6	90	90	8.5	1.5	80	75	1.5	A08	P
IG6	026 447 300		1.4	0	90		1.0	0.675	80		0.67	A08	TT
IH4	026 040 300		2	9	150		3	0.9	100		0.9	A08	T
IH5	036 080 200	G <sub>1</sub>	1.4	0.5	100		0.06	0.36	80		0.27	A08	DT
IH6	036 894 200		2	3	150		0.8	0.575	100		0.57	A08	DDT
IJ5	036 540 200		2	16.5	150	150	7	0.95	100	100	0.9	A08	P
IJ6	026 447 300		2	3	150		1.7		100			A08	TT
IJ6GX	026 447 300		2	0	125		5		125			A08	TT
IK4	365 200 000	G <sub>1</sub>	2	0	150	75	2.5	1.05	150	75	1.05	UX4	P
IK5	026 500 300	G <sub>1</sub>	2	0	125	75	2.5	1.05	125	75	1.05	A08	P
IK6	369 852 000	G <sub>1</sub>	2	3	150	90	0.9	0.6	100	75	0.6	UX6	DDP
IK7	026 895 300	G <sub>1</sub>	2	4.5	125	150	1.5	0.7	100	100	0.7	A08	DDP
ILA4	365 004 020		1.4	4.5	90	90	4	0.85	80	75	0.85	B8B	P
ILA4E	365 004 020		1.4	4.5	90	90	3.5	0.8	80	75	0.8	B8B	P
ILA6	366 454 020		1.4	0	90	50		0.55	80	60	0.5	B8B	H
ILA6E	366 454 020		1.4	0	90	50		0.55	80	60	0.5	B8B	H
ILB4	365 004 020		1.4	9	90	90	5	0.925	80	75	0.9	B8B	P
ILB6	276 554 430		1.4	0	75		1.2		80			B8B	H
					90	75	0.4		80	75			
ILC5	365 124 020		1.4	0	90	50	1.15	0.775	80	60	0.77	B8B	P
ILC6	266 454 030		1.4	0	90	50	3	0.55	80	60	0.5	B8B	H

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
ILD5	365 804 020		1.4	0	90	50	0.6	0.578	80	60	0.5	B8B	DP
ILE3	360 0*4 020		1.4	3	90		1.4	0.76	80		0.76	B8B	T
ILF3	360 004 020		1.4	3	90		1.4	0.76	80		0.76	B8B	T
ILG5	365 124 020		1.4	1.5	90	90	3.7	1.15	80	90	1.15	B8B	P
ILH4	360 804 020		1.4	0	90		0.15	0.275	80		0.27	B8B	DT
ILN5	365 124 020		1.4	0	90	90	1.6	0.8	80	90	0.8	B8B	P
ILN5E	365 124 020		1.4	0	90	90	1.6	0.8	80	90	0.8	B8B	P
IL4	265 024 300		1.4	0	90	75	2.9	0.925	80	75	0.9	B7G	P
IL5	026 540 300		2	6	175	175	9.5	2.4	100	150	2.4	A08	P
IL6	266 451 300		1.4	0	90	50	4	0.55	No Data Available			B7G	H
IM5G	036 500 200	G <sub>1</sub>	2	0	150	75	2.5	1	150	75	1	A08	P
IN5	036 500 200	G <sub>1</sub>	1.4	0	90	90	1.2	0.750	80	90	0.75	A08	P
IN6	036 548 200		1.4	4.5	90	90	3.4	0.8	80	75	0.8	A08	DP
IPI	365 024 300		1.4	5.2	90	90	5.0	1.4	80	75	1.4	B7G	P
IP5	036 500 200	G <sub>1</sub>	1.4	0	90	90	2.3	0.75	80	90	0.75	A08	P
IPI0	264 536 200		1.4	7	90	75	7.4	1.57	80	60	1.57	B7G	P
IPI1	365 024 300		1.4	4.5	90	90	9.5	2.15	80	75	2	B7G	P
IQ5	036 540 200		1.4	4.5	90	90	9.5	2.2	80	75	2.2	A08	P
IR	026 510 300	G <sub>1</sub>	1.4	0	90	90	1.2	0.75	80	90	0.75	A08	P
IR4	200 800 130		1.4						D			B8B	D
IR5	266 424 300		1.4	4	75		4.5	1.2	80		1.4	B7G	H
ISA6	021 405 360		1.4	0	90	75	2.45	0.97	80	75	0.97	A08	P
ISB6	036 580 240		1.4	0	90	75	1.45	0.665	80	75	0.66	A08	DP
IS4	264 526 300		1.4	7	90	75	7.4	1.575	80	60	1.5	B7G	P
IS5	208 564 300		1.4	0	75	75	1.6	0.625	80	75	0.625	B7G	DP
IT	036 500 320	G <sub>1</sub>	1.4	4.5	90	90	9.9	2.1	80	75	2.1	A08	P
IT2	123 000 000	D <sub>1</sub>	1.4						D			B3G	D
IT4	265 024 300		1.4	0	90	75	3.5	0.9	80	75	0.9	B7G	P
IT5	036 540 200		1.4	6	90	90	6.5	1.15	80	75	1.15	A08	P
IU4	265 024 300		1.4	0	90	90	1.0	0.9	80	90	0.9	B7G	P
IU5	265 804 300		1.4	0	75	75	1.6	0.625	80	75	0.6	B7G	DP
IU6	266 451 300		1.4		75	50			No Data Available			B7G	H
IV	281 300 000		6				60		REC		20mA	UX4	R
IV2	*** 23* **8		0.625						D			B9A	D
IW4	265 004 300		1.4	9	90	90	5	0.925	80	75	0.9	B7G	P
IX2	230 232 032	D <sub>1</sub>	1.25						D			B9A	D
IY2	200 300 000	D <sub>1</sub>	1.4						D			UX4	D
IZ2	232 232 300	D <sub>1</sub>	1.4				2		D			B7G	R
2	642 300 000		2	4	150		1.5		100			B4	T
2AF4	642 314 600		2.5	4.0	100		15	6.6	80		6.0	B7G	T
2A3	264 300 000		2.5	45	250		60	5.2	100		5.2	UX4	T
2A3H	364 200 000		2.5	62	300		40	5.25	100		5.25	UX4	T
2A5	265 413 000		2.5	16.5	250	250	34	2.5	100	PenLF	2.5	UX6	P
2A6	268 913 000	G <sub>1</sub>	2.5	2	250		0.9	1.1	150		1.1	UX6	DDT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
2A7	265 541 300	G <sub>1</sub>	2.5	8	250	100	3.5	1.15	150	100	1.1	Sm7	H
2B7	265 891 300	G <sub>1</sub>	2.5	3	250	125	9	1.125	100	100	1.12	UX7	DDP
2B7S	265 891 300	G <sub>1</sub>	2.5	3	250	100	6	1	100	100	1	UX7	DDP
2B21	300 200 000	D <sub>1</sub>	2.5				5		D			UX4	R
2B22	021 010 310	D <sub>1</sub>	6						D			A08	D
2B25	200 800 300		1.4						D			B7G	D
2B26	280 300 000		2.5				120		REC		30mA	UX4	R
2B35	123 000 000	D <sub>1</sub>	6						D			B3G	D
2B36	123 000 000	D <sub>1</sub>	4						D			B3G	D
2C21	217 461 300	G <sub>1</sub>	6	16.5	250		8.3	1.375	100		1.37	UX7	TT
2C22	020 000 310	A <sub>1</sub> G <sub>1</sub>	6	10.5	300		11	3	100		3	A08	T
2C23	264 300 000		7.5	32	350		16	1.55	100		1.5	UX4	T
2C26	020 000 310	A <sub>1</sub> G <sub>1</sub>	6	15	350		16		100			A08	T
2C48	265 004 130		6	15	250	250	70		100	150		B8B	P
2C50	265 004 130		6	15	250	250	70		100	150		B8B	P
2C51	214 607 413		6	2	150		8.2	5.5	125		5.5	B9A	TT
2C52	461 471 230		12.5	2	250		1.3	1.9	200		1.9	A08	TT
2D1	289 130 000		2.5						D			UX5	DD
2D2	892 310 000		2						D			B5	DD
2D4	892 310 000		4						D			B5	DD
2D4A	892 310 000		4						D			B5	DD
2D4B	091 231 800		4						D			B7	DD
2D13C	892 310 000		13						D			B5	DD
2D21	412 316 100		6		400		50	6kΩ	No Data Available			B7G	Thyratron
2E22	254 130 000	A <sub>1</sub>	6		400	250	100		100	PenLF		UX5	P
2E24	235 242 300	A	3	18.5	400	200	16	3.2	200	100	3.2	A08	P
2E26	125 141 300	A	6	20	200	200	20	3.5	100	75	3.5	A08	P
2E30	413 365 200		3	20	250	250	40	3.7	100	PenLF	3.7	B7G	P
2HMD	452 310 000	A <sub>1</sub> A <sub>2</sub>	4		200	100	3.8	1.14	100	100	1.1	B5	PP
2P	642 300 000		2	22	250		40	7	100		7	B4	T
2S	289 130 000		2.5				15		REC		10mA	UX5	RR
2T/270K	112 311 100	D <sub>1</sub>	4						REC		5mA	B7G	R
2V3	020 000 300	D	2.5						D			A08	R
2V3	020 800 030		2.5				60		REC		20mA	A08	R
2XP	642 300 000		2	36	300		50	7	100		7	B4	T
2X2	300 200 000	D <sub>1</sub>	2.5				5		D			UX4	R
2X2A	300 200 000	D <sub>1</sub>	2.5				5		D			UX4	R
2X3	020 800 030		2.5				120		REC		30mA	A08	R
2Y2	200 300 000	D <sub>1</sub>	2.5				5		D			UX4	R
2Z2	280 300 000		2.5				60		REC		20mA	UX4	R
3	642 300 000		2	7.5	150		3.4	0.9	100		0.9	B4	T
3A2	230 232 032	D <sub>1</sub>	3						D			B9A	D
3A3	*2* 0*0 3*0	D <sub>1</sub>	3						D			A08	D
3A4	365 426 300		1.4	8.4	150	90	13.3	1.9	100	75	1.9	B7G	P
3A5	264 347 200		1.4	2.5	90		3.7	1.8	80		1.8	B7G	TT



VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
3A8	237 546 380	G <sub>1</sub>	1.4	0	90	0	1.5	0.325	80		0.32		
3AL5	192 310 800		3		90	60	0.2		80	60		A08	DTP
3AU6	412 365 100		3	1.0	250	150	10.0	5.2	100	150	5.0	B7G	DD
3AY6	412 389 600		3	2.0	250		1.2	1.6	200		1.6	B7G	P
3A/107A	264 300 000		4	B	125		6.5	1.6	100		1.6	UX4	DDT
3A/107B	642 300 000		4	8	125		6.5	1.6	100		1.6	B4	T
3A/108A	264 300 000		2	1.5	125		0.9	0.5	100		0.5	UX4	T
3A/108B	642 300 000		2	1.5	125		0.9	0.5	100		0.5	B4	T
3A/109A	264 300 000		4	8	125		19	1.2	100		1.2	UX4	T
3A/109B	642 300 000		4	8	125		19	1.2	100		1.2	B4	T
3A/154M	260 0*4 130		6	2	250		12	3	100		3	B8B	T
3BA6	412 365 100		3	1.0	250	100	11.0	4.4	100	100	4.4	B7G	P
3BE6	412 366 100		3	2.0	100		11.0	7.0	100		5.0	B7G	H
3BN6	412 354 600		3	1.0	60	60	0.25	1.0	B0	60	1.0	B7G	P
3B5	036 540 320		1.4	7	75	75	6.7	1.5	80	60	1.5	A08	P
3B7	364 204 730		1.4	0	90		5.2	1.85	B0		1.85	B8B	TT
3B21	289 300 000		2.5				120		REC		30mA	UX4	RR
3B22	289 300 000		2.5				120		REC		30mA	UX4	RR
3B23	200 300 000	D <sub>1</sub> D <sub>2</sub>	2.5				120		REC		30mA	UX4	RR
3B24	320 200 000	D <sub>1</sub>	2.5				30		REC		15mA	UX4	R
3B25	200 300 000	D <sub>1</sub>	2.5				120		REC		15mA	UX4	R
3B26	030 000 200	D <sub>1</sub>	2.5				15		REC		10mA	A08	R
3B27	280 300 000		2.5				120		REC		30mA	UX4	R
3B/240M	214 444 130	A	6	1	300		50	27	No Data Available			B8B	T
3B/241M	214 444 130	A	19	1	300		50	27	No Data Available			B8B	T
3B/252B	642 310 000		6	20	400		60	10	100		8	B5	T
3CF6	412 365 100		3	2.2	200	150	9.5	6.2	100	150	6.0	B7G	P
3CS6	412 365 100		3	1.0	100	30	1.0	1.1	100		1.1	B7G	H
3C5	036 540 320		1.4	9	90	90	6	1.4	80	75	1.4	A08	P
3C6	206 447 320		1.4	0	90		4.5	1.3	80		1.3	A08	TT
3C36	412 365 100		3	2.2	200	150	9.5	6.2	100	150	6.0	B7G	P
3D6	365 004 230		1.4	4.5	150	90	10.2	2.4	100	75	2.4	BBB	P
3E5	365 024 300		1.4	8	90	90	6	1.2	80	75	1.2	B7G	P
3E6	265 134 020		1.4	0	90	90	2.5	1.8	B0	90	1.8	A08	P
3LE4	365 004 230		1.4	9	90	90	1.8	1.6	80	75	1.6	A08	P
3LF4	365 004 230		1.4	4.5	90	90	8	2	80	75	2	B8B	P
3Q4	364 526 300		1.4	5	90	90	6.9	1.975	80	75	1.9	B7G	P
3Q5	036 540 320		1.4	4.6	90	90	8	2	80	75	2	A08	P
3S4	364 526 300		1.4	7	90	75	7.4	1.574	B0	60	1.5	B7G	P
3V4	365 024 300		1.4	4.5	90	90	7.7	2	80	75	2	B7G	P
4	642 300 000		2	1	150		1	0.9	150		0.9	B4	T
4A6G	026 447 230		2	1.5	90		1.2	0.9	80		0.9	A08	TT
4BQ7A	741 236 410		4	2.0	100		9.0	6.4	100		6.0	B9A	TT
4BZ7	741 236 410		4	2.2	150		10.0	6.8	100		6.0	B9A	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
4CI	264 300 000		3	3	90		5	1	80		1	UX4	T
4DI	000 231 600	G <sub>1</sub>	13	3	250		10	4	150		4	B7	T
4NG	892 300 000		4				30		REC		15mA	B4	RR
4S	289 130 000		2.5						D			UX5	D
4THA	645 231 700	G <sub>1</sub>	4	{ 5 2	100 250	100	1.5 3.5	1.5 2.5	80 100	100	1.5 2.2	B7	TH
4TP	446 231 500	A <sub>2</sub>	4	5	150	150	16	4.5	150	100	4.5	B7	TP
4TPB	061 231 500	G <sub>1</sub>	4	3	250	150	12	8	100	100	7	B7	P
4TSA	045 231 600	A <sub>1</sub>	4	0	250	100	5.0	1.6	250	100	1.6	B7	P
4TSP	041 231 500	A	4	3	250	150	12	8	100	100	7	B7	P
4XP	642 300 000		4	28.5	250		48	7	100		6	B4	T
4/100BU	892 300 000		4				120		REC		30mA	B4	RR
5AM8	145 236 181		5	1.7	200	150	11.5	7.0	100	150	7.0	B9A	DP
5AN8	641 237 541		5	{ 6.0 2.2	200 200	150	13.0 9.5	3.3 6.2	100 100	60 150	3.0 6.0	B9A	TP
5AQ5	412 365 400		5	12.5	250	250	45.0	4.1	100	PenLF	4.0	B7G	P
5AS8	541 238 116		5	2.2	200	150	9.5	6.2	100	150	6.0	B9A	DP
5AT8	461 237 514		5	{ 1.0 1.8	100 250	150	8.5 7.7	5.8 4.6	100 100	60 150	5.0 4.0	B9A	TP
5AZ4	020 809 030		5				60		REC		20mA	B8B	RR
5A6	601 225 413		2.5	15	150	150	40		100	100		B9A	P
5A/102D	026 510 310	G <sub>1</sub>	7.5	18	175	150	42	2.5	100	100	2.5	A08	P
5A/136D	026 510 310	G <sub>1</sub>	7.5	5.5	250	150	5.2	2	100	100	2	A08	P
5A/150A	265 113 000	G <sub>1</sub>	10	5.5	250	150	5.2	2	100	100	2	UX6	P
5A/152M	265 104 130		6	2	250	50	10	7.5	100	100	5	B8B	P
5A/155M	256 101 403		6	2	250	250		6.5	100	150	5	B9G	P
5A/156M	256 101 403		6	1.7	250	250		7.7	100	150	6	B9G	P
5A/157D	026 510 310	G <sub>1</sub>	6	2	250	100		1.8	100	100	1.8	A08	P
5A/163K	141 236 115		6	1.5	200	200	15	15	No Data Available			B9A	P
5B/110M	265 104 130		6	6	250	150	38	6.5	100	100	5	B8B	P
5B/250A	254 130 000	A	6	12.5	400	250	83	6.3	100	150	6	UX5	P
5B/251M	215 044 130	A	6	15	250	250	72	6	100	100	5	B8B	P
5B/252M	265 044 130		6	15	250	250	72	6	100	100	5	B8B	P
5B/253M	265 044 130		19	15	250	250	72	6	100	100	5	B8B	P
5B/254M	215 144 130	A	6	20	300	250	50	5.6	100	100	5	B8B	P
5B/255M	215 144 130	A	6	20	300	250	50	5.6	100	100	5	B8B	P
5B/256M	215 144 130	A	19	20	300	250	50	5.6	100	100	5	B8B	P
5B/257M	215 144 130	A	12	20	300	250	50	5.6	100	100	5	B8B	P
5E255	642 350 000		2	4.5	150	150	9.5	2.5	100	100	2.5	B5	P
5E415	642 350 000		4	25	300	200	20	1.7	100	PenLF	1.7	B5	P
5J6	672 344 100		5	3.0	150		5.0	4.5	100		5.3	B7G	TT
5Q5	036 540 320		1.4	4.6	90	90	4.5	2	80	75	2	A08	P
5R4	020 809 030		5				60		REC		20mA	A08	RR
5R4GY	030 809 020		5				60		REC		20mA	A08	RR
5T4	020 809 030		5				120		REC		30mA	A08	RR
5T8	191 238 146		5	3.0	250		1.0	1.2	150		1.3	B9A	DDDT

VALVE	SELECTOR SWITCH No.	T.C.	Vr	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
5U4	020 809 030		5				120		REC		30mA	A08	RR
5U8	645 237 114		5	{ 1.0 1.0	150 250	100	18.0 10.0	8.5 5.2	100 150	60 100	7.0 5.0	B9A	TP
5V4	030 809 020		5				60		REC		20mA	A08	RR
5W4	020 809 030		5				60		REC		20mA	A08	RR
5X3	289 300 000		5				15		REC		10mA	A08	RR
5X4	008 090 230		5				120		REC		30mA	A08	RR
5X8	146 231 457		5	{ 1.0 1.8	100 250	150	8.5 7.7	5.8 4.6	100 100	60 150	5.0 4.0	B9A	TP
5Y3GB	030 809 020		5				60		REC		20mA	A08	RR
5Y3GR	020 809 030		5				60		REC		20mA	A08	RR
5Y3GT	020 809 030		5				60		REC		20mA	A08	RR
5Y4	008 090 230		5				60		REC		30mA	A08	RR
5Y4SG	008 090 230		5				60		REC		20mA	A08	RR
5Z3	289 300 000		5				120		REC		30mA	UX4	RR
5Z4	030 809 020		5				60		REC		20mA	A08	RR
5Z4G	030 809 020		5				60		REC		20mA	A08	RR
6AB4	602 304 100		6	2	250		10	5.5	200		5.5	B7G	T
6AB7	021 415 360		6	3	300	200	12.5	5	100	150	5	A08	P
6AB8	641 237 154		6	{ 2 8.0	100 200	0 200	4 17.5	1.4 3.5	100 100		1.4 3.5	B9A	TP
6AC7	021 415 360		6	2	300	150	10	9	100	100	8	A08	P
6AD5	026 040 310		6	2	250		0.9	1.5	200		1.5	A08	T
6AD7	427 546 310		6	{ 25 16.5	250 250	0 250	4 34	0.325 2.5	100 100	PenLF	0.32 2.5	A08	TP
6AE5	026 040 310		6	15	100		7	1.2	80		1.2	A08	T
6AE6	026 740 310		6	1.5	250		6.5	1	200		1	A08	TT
6AE7	026 414 310		6	13.5	250		10	3	100		3	A08	TT
6AE8	541 237 46*		6	{ 2 2	100 250		5.2 3.5	2.2	100 150		2.8	B9A	TH
6AF4	642 314 600		6	4	100		15	6.6	80		6	B7G	T
6AF5	026 040 310		6	18	175		7	1.5	100		1.5	A08	T
6AG5	412 365 100		6	1.5	250	150	6.5	5	100	100	5	B7G	P
6AG6	026 540 310		6	6	250	250	32	10	100	PenLF	9	A08	P
6AG7	120 415 360		6	3	300	150	30	11	100	100	10	A08	P
6AH4	420 060 310		6	23	250		30	4.5	100		4	A08	T
6AH5	520 604 310		6	18	350	250		5.2	100	PenLF	5	A08	P
6AH6	412 365 100		6	2	300	150	10	9	100	100	8	B7G	P
6AH7	461 471 230		6	16	250		10	2.2	100		2.2	A08	TT
6AH7GT	417 146 230		6	9	250		12	2.4	100		2.4	A08	TT
6AJ4	414 464 234		6	2	125		8	7	100		10	B9A	T
6AJ5	412 365 100		6	7.5	180	75	2.9	2.75	No Data Available			B7G	P
6AJ7	020 415 360		6		300	150	10.0	9.0	150	150	7.5	A08	P
6AJ8	541 237 164		6	{ 3.0 2.0	100 250	100	5.0 6.5	2.3 2.4	100 150		2.3 2.4	B9A	TH
6AK5	412 365 100		6	2.3	150	150	7	4.3	100	100	4	B7G	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6AK6	412 365 100		6	9	175	175	15	2.3	100	100	2.3	B7G	P
6AK7	120 415 360		6	3	300	150	30	11	100	100	9	A08	P
6AK8	891 238 46		6	3.0	250		1.0	1.2	100		1.3	B9A	DDDT
6AL5	192 310 800		6				5		D			B7G	RR
6AL6	020 540 310	A	6	14	250	250	72	6	100	PenLF	6	A08	P
6AM4	414 464 234		6	1.5	150		2.8	7	100		9	B9A	T
6AM5	412 360 500		6	13.5	250	250	16	2.6	100	PenLF	2.6	B7G	P
6AM6	412 361 500		6	2	250	250	10	7.5	100	PenLF	5	B7G	P
6AM8	145 236 181		6	1.7	200	150	11.5	7.0	100	150	7.0	B9A	DP
6AN5	412 365 100		6	6	125	125	35	8	100	100	7	B7G	P
6AN6	289 441 300		6						D			B7G	DDDD
6AN8	641 237 541		6	{ 6 2.2	200 200	150	13 9.5	3.3 6.2	100 100	150	3 6	B9A	TP
6AQ5	412 365 400		6	12.5	250	250	45	4.1	100	PenLF	4	B7G	P
6AQ6	412 398 600		6	3	250		1.0	1.2	150		1.2	B7G	DDT
6AQ7	918 461 230		6	2	250		2.3	1.6	100		1.6	A08	DDT
6AQ8	741 236 410		6	2.3	250		10.0	5.9	100		5.0	B9A	TT
6AR5	412 365 000		6	16	250	250	34	2.4	100	PenLF	2.4	B7G	P
6AR6	106 052 430		6	36	300	300	58	4.3	100	PenLF	4.3	A08	P
6AR7GT	206 598 130	G	6	2	250	100	7	2.5	100	100	2.5	A08	DDP
6AR7	461 891 230		6	2	250		1.3	1.05	200		1.05	A08	DDT
6AS5	142 345 600		6	8.5	150	125	35	5.6	100	100	5	B7G	P
6AS6	412 365 100		6	2	125	125	5.5	3.5	100	100	3.5	B7G	P
6AS7	471 461 230		6	31.5	150		125	7	100		7	A08	TT
6AS8	541 238 116		6	2.2	200	150	9.5	6.2	100	150	6	B9A	DP
6AT6	412 389 600		6	3	250		1	1.2	150		1.2	B7G	DDT
6AU4	001 080 230		6				120		REC		40mA	A08	R
6AU5	421 060 350		6	20	100	150	50	6	80	60	6	A08	P
6AU6	412 365 100		6	1	250	150	10.6	5.2	100	150	5.2	B7G	P
6AU8	164 231 457		6	{ 1.25 1.5	150 200	125	8.5 15.0	4.9 7.0	100 100	60 100	5.0 7.0	B9A	TP
6AV5	421 060 350		6	22.5	250	150	55	5.5	100	100	5.8	A08	P
6AV6	412 389 600		6	2	250		1.2	1.6	200		1.6	B7G	DDT
6AW4	289 130 000		6				30		REC		15mA	UX5	RR
6AW5	208 190 310		6				30		REC		15mA	A08	RR
6AW6	412 365 100		6	1.8	250	150	7	5	100	150	5	B7G	P
6AW7	149 816 230		6	0	100		1.4	1.2	100		1.2	A08	DDT
6AW8	146 231 457		6	{ 2.0 3.0	200 200	150	4.0 13.0	4.0 9.0	100 100	60 100	4.0 9.0	B9A	TP
6AX4	001 080 230		6				120		REC		35mA	A08	R
6AX5	029 080 310		6				60		REC		20mA	A08	RR
6AX6	028 190 310		6				120		REC		30mA	A08	RR
6AY8	026 589 310	G <sub>1</sub>	6	5	250	100	52	9.5	100	90	9	A08	DDP
6AZ8	751 324 164		6	{ 6.0 2.3	200 200	150	13.0 9.5	3.3 6.0	100 100	60 100	3.0 6.0	B9A	TP

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
6A3	264 300 000		6	36	250		60	5.25	100		5	UX4	T
6A4	264 530 000		6	9	150	150	14	1.9	100	100	1.9	UX5	P
6A5	026 040 310		6	45	250		60	5.25	100		5	A08	T
6A6	274 146 300		6	5	250		6	3.1	100		3.1	UX7	TT
6A7	265 541 300	G <sub>1</sub>	6	8	250	100	3.5	1.15	100	100	1.15	Sm7	H
6A7E	265 541 300	G <sub>1</sub>	6	8	250	100	3.5	1.15	100	100	1.15	Sm7	H
6A7S	265 541 300	G <sub>1</sub>	6	8	250	100	3.5	1.15	100	100	1.15	Sm7	H
6A8	026 545 310	G <sub>1</sub>	6	8	250	100	3.5	1.15	100	100	1.15	A08	H
6BA6	412 365 100		6	1	250	100	11	4.4	100	100	4.4	B7G	P
6BA7	641 231 106		6	2	100		18	7	100		7	B9A	H
6BC5	412 365 100		6	1.3	250	150	7.5	5.7	100	150	5.7	B7G	P
6BC7	180 239 111		6				5		D			B9A	RRR
6BD5	421 060 350		6	12	200	200		5	100	100	5	A08	P
6BD6	412 365 100		6	3	250	100	9	2	100	100	2	B7G	P
6BD7	641 238 09*		6	3.0	250		1.0	1.2	150		1.2	B9A	DDT
6BE6	412 366 100		6	2	100		11	7.0	100		5	B7G	H
6BE7	541 236 114		6	1	250	20	0.95	0.7	No Data Available			B9A	N
6BF5	412 365 400		6	7.5	100	100	36	7.5	100	90	7	B7G	P
6BF6	412 398 600		6	9	250		9.5	1.9	100		1.9	B7G	DDT
6BG6	021 040 350	A	6	15	300	250	75	6	100	PenLF	5	A08	P
6BH6	412 365 100		6	1	250	150	7.4	4.6	100	PenLF	4.6	B7G	P
6BJ5	412 36* 500		6	5	250	250	35	10.5	100	150	10	B7G	P
6BJ6	412 365 100		6	1	250	100	9.2	3.6	100	100	3.6	B7G	P
6BJ7	110 239 181		6						D			B9A	DDD
6BK5	604 231 450		6	5	250	250	35	8.5	100	150	8	B9A	P
6BK6	412 389 600		6	2	250		1.2	1.6	100		1.6	B7G	DDT
6BK7	741 236 410		6	1.0	100		9.0	6.1	100		6.0	B9A	TT
6BK7-A	741 236 410		6	2	150		10.7	9	100		9	B9A	TT
6BL4	**1 *8* 230		6				180		REC		40mA	A08	R
6BL7	471 461 230		6	9	250		40	6.2	100		6	A08	TT
6BN6	142 354 600		6	1	60	60	0.25	1	80	60	1	B7G	P
6BN7	741 231 406		6	15	250		24	5.5	No Data Available			B9A	TT
				1	125		5	2					
6BN8	026 895 310	G <sub>1</sub>	6	3	250	125	9	1.13	100	100	1.1	A08	DDP
6BQ5	*41 23* 6*5		6	7.3	250	250	48.0	11.3	100	150	10.0	B9A	P
6BQ6	020 540 310	A	6	22.5	250	150	55	5.5	100	100	5	A08	P
6BQ7	741 236 410		6	2	150		9	6	150		6	B9A	TT
6BQ7-A	741 236 410		6	2	150		9	6.4	100		5	B9A	TT
6BR7	041 230 651		6	3	250	100	2	1.225	100	100	1.2	B9A	P
6BS7	001 230 651	G <sub>1</sub>	6	3	250	100	2	1.25	100	100	1.2	B9A	P
6BT6	412 389 600		6	3	250		1	1.2	150		1.2	B7G	DDT
6BU6	412 389 600		6	9	250		9.5	1.9	100		1.9	B7G	DDT
6BV7	865 239 141		6	5	250	250	38	10	100	150	10	B9A	DDP
6BW6	*41 230 651		6	13	300	225	34	3.75	100	150	3.7	B9A	P

VALVE	SELECTOR SWITCH No.	T.C.	Vr	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6BW7	141 230 651		6	1.4	250	250	9.7	8.2	100	100	7	B9A	P
6BX6	141 230 651		6	3	200	200	8	7.2	100	150	6	B9A	P
6BX7	471 461 230		6	16.4	250		42	7.6	100		6	A08	TT
6BY5	120 980 310		6				60		REC		20mA	A08	RR
6BY6	412 365 400		6	2.5	250	100	6.5	2.4	100	100	2	B7G	H
6BY7	141 230 651		6	2.0	250	100	10.0	6.0	150	100	5.0	B9A	P
6BY8	026 598 310	G <sub>1</sub>	6	4	250	250	44	12	100	PenLF	10	A08	DD
6BZ7	741 236 410		6	2.2	150		10.0	6.8	100		6.0	B9A	TT
6B4	026 040 300		6	36	250		60	5.25	100		5	A08	T
6B6	026 980 310	G <sub>1</sub>	6	2	250		0.9	1.1	100		1.1	A08	DDT
6B7	265 891 300	G <sub>1</sub>	6	3	250	125	9	1.125	100	100	1.1	Sm7	DDP
6B7E	265 891 300	G <sub>1</sub>	6	3	250	125	9	1.125	100	100	1.1	Sm7	DDP
6B7S	265 891 300	G <sub>1</sub>	6	3	250	125	9	1.125	100	100	1.1	Sm7	DDP
6BB	026 985 310	G <sub>1</sub>	6	3	250	125	10	1.325	100	100	1.3	A08	DDP
6B8G	026 985 310	G <sub>1</sub>	6	3	250	125	9	1.125	100	100	1.2	A08	DDP
6B8SG	026 985 310	G <sub>1</sub>	6	3	250	125	9	1.125	100	100	1.2	A08	DDP
6CB5	521 441 350	A	6	30.0	175	175	90	8.8	100	100	8.0	A08	P
6CB6	412 365 100		6	2.2	200	150	9.5	6.2	100	150	6	B7G	P
6CD6	021 040 350	A	6	30	175	175	75	7.7	100	100	7.0	A08	P
6CF6	412 365 100		6	2.2	200	150	9.5	6.2	100	150	6	B7G	P
6CH6	041 230 651		6	4.5	250	250	40	11.0	100	150	9.0	B9A	P
6CL6	145 236 154		6	3	250	150	30	11	No Data Available			B9A	P
6CJ6	*41 23* *51	A	6	22	175	175	45	6.2	100	100	5	B9A	P
6C4	602 364 100		6	8.5	250		10.5	2.2	100		3	B7G	T
6C5	026 040 310		6	B	250		B	2	100		2	A08	T
6C6	265 113 000	G <sub>1</sub>	6	3	250	100	2	1.225	100	100	1.2	UX6	P
6C7	260 981 300	G <sub>1</sub>	6	9	250		4.5	1.25	100		1.2	Sm7	DDT
6CB	026 147 310	G <sub>1</sub>	6	4.5	250		3.2	1.6	100		1.6	A08	TT
6C9	276 454 130		6	{ 1.0	100		5.0	3.0	100		3.0		
				{ 2.5	250	100	3.0	2.5	100	100	2.5	BBA	TH
6C10	276 454 130		6	{ 1	100		6.5	2.2	100		2.8	BBA	TH
				{ 2	250	100	6.3	2.4	200	100	2.4		
6C31	027 546 310	G <sub>1</sub>	6	{ 4	100		7	3.4	100		5	A08	TH
				{ 3	250	100	5	2.8	100	100	3.1		
6CG7	641 237 410		6	8.0	250		9.0	2.6	100		3.0	B9A	TT
6CS6	412 365 100		6	1.0	100	30	1.0	1.1	No Data Available			B7G	H
6CU6	021 040 356		6	22.5	250	150	65.0	6.0	100	100	6.0	A08	P
6DC6	412 365 100		6	2.2	200	150	9.0	5.5	150	100	5.0	B7G	P
6DR4	123 000 000	D <sub>1</sub>	6						D			B3G	D
6DI	123 000 000	D <sub>1</sub>	6						D			B3G	D
6D2	192 310 800		6						D			B7G	RR
6D3	812 380 000		6						D			B7G	R
6D5	026 040 310		6	40	275		31	2.1	100		2.1	A08	T
6D6	265 113 000	G <sub>1</sub>	6	3	250	100	8.2	1.6	100	100	1.6	UX6	P
6D7	265 101 300	G <sub>1</sub>	6	3	250	100	2	1.225	100	100	1.2	Sm7	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
6D8	027 546 310	G <sub>1</sub>	6	{ 3	150 250		4.2 3.5		100 150			A08	H
6EH6	412 365 100		6	1	250	150	7.4	4.6	100	150	4	B7G	P
6E6	274 146 300		6	27.5	250		18	1.7	100		1.7	UX7	TT
6E7	265 101 300	G <sub>1</sub>	6	3	250	100	8.2	1.6	100	100	1.6	Sm7	
6E8G	027 546 310	G <sub>1</sub>	6	{	150 250	100	3.3 2.3	2.8	150 100	100	2.8	A08	TH
6F1	261 514 130		6	1.8	200	200	10	9	100	PenLF	8	B8A	P
6F5	020 600 310	G <sub>1</sub>	6	2	250		0.9	1.5	100		1.5	A08	T
6F6	026 540 310		6	16.5	250	250	34	2.5	100	PenLF	2.5	A08	P
6F7	275 641 300	G <sub>1</sub>	6	{ 3.0	100		3.5	0.5	100	60	0.5		
				{ 3.0	100	100	6.3	1.05	100	100	1.05	Sm7	TP
6F7B	275 641 300	G <sub>1</sub>	6	{ 3.0	100		3.5	0.5	100	60	0.5		
				{ 3.0	100	100	6.3	1.05	100	100	1.05	UX7	TP
6F7E	275 641 300	G <sub>1</sub>	6	{ 3.0	100		3.5	0.5	100	60	0.5		
				{ 3.0	100	100	6.3	1.05	100	100	1.05	UX7	TP
6F7M	023 756 410	G <sub>1</sub>	6	{ 3.0	100		3.5	0.5	100	60	0.5		
				{ 3.0	100	100	6.3	1.05	100	100	1.05	UX7	TP
6F8	027 146 310	G <sub>1</sub>	6	8	250		9	2.6	100		2.6	A08	TT
6F11	260 154 130		6	1.8	250	100	4.4	2.2	100	100	2.2	B8A	P
6F12	412 361 500		6	2	250	250	10	7.5	100	150	5	B7G	P
6F13	260 154 130		6	1.8	200	200	10	9	150	150	8	B8A	P
6F14	260 154 130		6	1.25	150	150	28	10.6	100	100	8	B8A	P
6F15	260 154 130			2.5	250	100	7	2.3	100	100	2.3	B8A	P
6F16	261 154 130			2.5	250	100	6	2.2	100	100	2.2	B8A	P
6F17	412 361 500			2	150	150	46	6	No Data Available			B7G	P
6F32	216 510 030	G <sub>1</sub>	6	4.5	200	200	5.1	3	100	150	3	M08	P
6F33	412 361 500		6	4	200	200	5.75	3.55	100	150	3.5	B7G	P
6G6	026 540 310		6	9	175	175	15	2.3	100	100	2.3	A08	P
6G7	026 985 310	G <sub>1</sub>	6	3	250	125	10	1.325	100	100	1.3	A08	DDP
6G8	026 985 310	G <sub>1</sub>	6	3	250	125	9	1.125	100	100	1.1	A08	DDP
6H4	020 800 310		6						D			A08	D
6H6	029 180 310		6						D			A08	DD
6H8G	026 895 310	G <sub>1</sub>	6	2	250	125	8.5	2.4	100	100	2.4	A08	DDP
6H8MG	026 895 310	G <sub>1</sub>	6	2	250	125	6	1.8	100	100	1.8	A08	DDP
6J4	412 344 600		6	1.5	150		15	12	100		10	B7G	T
6J5	026 040 310		6	8	250		9	2.6	100		2.6	A08	T
6J6	762 344 100		6	3	150		5	4.5	100		5.3	B7G	TT
6J7	026 510 310	G <sub>1</sub>	6	3	250	100	2	1.225	100	100	1.2	A08	P
6J8	027 546 310	G <sub>1</sub>	6	{ 3	150			1.6	100		1.6	A08	TH
				{ 3	250	100	1.3	1.2	100	100			
6K5	026 000 310	G <sub>1</sub>	6		250		1.1	1.4	200		1.4	A08	T
6K6	026 540 310		6	18	250	250	32	2.3	100	PenLF	2.3	A08	P
6K7	026 510 310	G <sub>1</sub>	6	3	250	125	10.5	1.65	100	100	1.6	A08	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6K8	027 546 310	G <sub>1</sub>	6	{ 1 3	100 250	100	8 4	2.5 1.2	100 100		3 1.6	A08	TH
6K25	026 040 310		6		100		30	2KΩ	No Data Available			A08	Thyratron
6LD3	264 098 130		6	1.9	250		0.85	1.95	150		1.9	B8A	DDT
6LD20	264 098 130		6	5.9	250		5	2.3	100		2.3	B8A	DDT
6LI	274 164 130		6	8.6	200		10	2.8	100		2.8	B8A	TT
6L5G	026 040 310		6	9	250		8	1.9	100		1.9	A08	T
6L6	026 540 310		6	18	350	250	54	5.2	100	PenLF	5.2	A08	P
6L7	026 540 310	G <sub>1</sub>	6	3	250	100	5.3	1.1	100	100	1.1	A08	H
6L18	260 064 130		6	13.3	250		12	5.5	80		7.0	B8A	T
6L19	274 164 130		6	1.8	200		5	3.1	150		3.1	B8A	TT
6L34	412 314 600		6	1.5	250		10	9	150		7	B7G	T
6M6	026 540 310		6	6	250	250	36	9.5	100	PenLF	8	A08	P
6M7	026 510 310	G <sub>1</sub>	6	2.5	250	125	10.5	3.4	100	100	3.2	A08	P
6M7MG	026 510 310	G <sub>1</sub>	6	2.5	250	125	6	2	100	100	2	A08	P
6M8	137 546 280	G <sub>1</sub>	6	{ 1.0 3.0	100 100	100	0.5 8.5	1.1 1.9	100 100	60 100	1.1 1.9	A08	DTP
6NK7	026 510 310	G <sub>1</sub>	6	2	250	100	5	2.3	100	100	2.3	A08	P
6N4	412 361 400		6	3	175		12	6	150		6	B7G	T
6N7	027 446 310		6	5	250		3	1.6	100		1.6	A08	TT
6N8	541 236 891		6	2	250	90	5	2.2	100	90	2.2	B9A	DDP
6PX6	026 540 310		6	6	250	250	35	9.2	100	PenLF	8	A08	P
6PZ8	026 589 310	G <sub>1</sub>	6	6	250	250	36	9.2	100	PenLF	8	A08	DDP
6PI	026 540 310		6	8.5	250	250	40	8.8	100	150	8	A08	P
6P5	026 040 310		6	13.5	250		5	1.45	100		1.4	A08	T
6P6	215 413 000	A	6	80	250	150	34		100	100		UX6	P
6P7	023 756 410	G <sub>1</sub>	6	{ 3.0 3.0	100 100	100	3.5 6.3	0.5 1.05	100 100	60 100	0.5 1.05	A08	TP
6P8	027 546 310	G <sub>1</sub>	6	{ 2.4 8.5	100 250	75	2.2 1.5		100 100			A08	TH
6P25	026 540 310		6	8.5	250	250	40	8.8	100	PenLF	8	A08	P
6P26	026 540 310		6	8.5	250	250	40	8.8	100	PenLF	8	A08	P
6P28	020 540 310	A	6	8.8	100	250	72	9.5	100	PenLF	9	A08	P
6Q4	441 230 446		6	1.5	250		15		150			B9A	T
6Q6	026 080 310		6	3	250		1.2	1.05	150		1.05	A08	DT
6Q7	026 980 310	G <sub>1</sub>	6	3	250		1	1.2	150		1.2	A08	DDT
6R	026 510 310	G <sub>1</sub>	6	2	250	100			100	100		A08	P
6RV	026 510 310	G <sub>1</sub>	6	2	250	100	6.4	2.1	100	100	2.1	A08	P
6R4	401 230 060		6	2	150		30	5.5	100		5	B9A	T
6R6	026 500 310	G <sub>1</sub>	6	3	250	100	7	1.45	100	100	1.4	A08	P
6R7	026 980 310	G <sub>1</sub>	6	9	250		9.5	1.9	100		1.9	A08	DDT
6R8	811 239 146		6	9	250		9.5	1.9	100		1.9	B9A	DDDT
6SA7	126 641 310		6	3.6	100		12	4.3	100		4.5	A08	H
6SA7G	026 641 310		6	3.6	100		12	4.3	100		4.5	A08	H



VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6SB7Y	126 541 310		6	1	250	100	3.8		100	100		A08	H
6SC5	026 400 310		6	4	250		7.5	2.7	100		2.7	A08	T
6SC7	074 461 230		6	2	250		2	1.325	200		1.3	A08	TT
6SD7	021 415 360		6	2	250	100	6	3.6	100	100	3.6	A08	P
6SE7	021 415 360		6	1.5	250	100	4.5	3.4	100	100	3.4	A08	P
6SF5	014 060 320		6	2	250		0.9	1.5	200		1.5	A08	T
6SF7	041 586 230		6	1	250	100	12.4	2.05	100	100	2	A08	DP
6SG7	021 415 360		6	1	250	125	11.8	4.7	100	100	4.7	A08	P
6SH7	021 415 360		6	1	250	150	10.8	4.9	100	150	4.9	A08	P
6SJ7	021 415 360		6	3	250	100	3	1.65	100	100	1.6	A08	P
6SK7	021 415 360		6	3	250	100	9.2	2	100	100	2	A08	P
6SL7	461 471 230		6	2	250		2.3	1.6	150		1.6	A08	TT
6SN7	461 471 230		6	8	250		9	2.6	100		2.6	A08	TT
6SQ7	041 896 230		6	2	250		0.9	1.1	200		1.1	A08	DDT
6SR7	041 986 230		6	9	250		9.5	1.9	100		1.9	A08	DDT
6SS7	021 415 360		6	3	250	100	9	1.85	100	100	1.8	A08	P
6ST7	041 896 230		6	9	250		9.5	1.9	100		1.9	A08	DDT
6SU7	471 461 230		6	2	250		2.3	1.6	200		1.6	A08	TT
6SV7	041 586 230		6	1	250	150	7.5	3.4	100	150	3.4	A08	DP
6SZ7	041 986 230		6	3	250		1	1.2	200		1.2	A08	DDT
6S4	*1* 234 **6		6	8	250		26	4.5	100		4.5	B9A	T
6S6	120 600 350	G <sub>1</sub>	6	2	250	100	13	4	100	100	4	A08	P
6S7	026 510 310	G <sub>1</sub>	6	3	250	100	8.5	1.75	100	100	1.7	A08	P
6S8	†18 916 230	G <sub>1</sub>	6	2	250		0.9	1.1	200		1.1	A08	DDDT
6T	205 413 000	A <sub>1</sub>	6	12.5	250	250	4.5	4.1	100	PenLF	4	UX6	P
6TE8	427 546 310	G <sub>1</sub>	6	{ 2 2	100 250	100	3.7 3.5		100 100	100		A08	TH
6TH8	027 546 310	G <sub>1</sub>	6	{ 1.5 1.5	300 150	75	3.5 6		100 150	75		A08	TH
6TP	205 413 000	A <sub>1</sub>	6	14.5	250	250	72	6	100	PenLF	6	UX6	P
6T4	642 314 600		6	3.0	80		18.0	7.0	80		7.0	B7G	T
6T6	026 500 310	G <sub>1</sub>	6	1	250	100	10	5.5	100	100	5.5	A08	P
6T7	026 980 310	G <sub>1</sub>	6	3	250		1.2	1.05	150		1.05	A08	DDT
6T8	†91 238 146		6	3	250		1	1.2	150		1.2	B9A	DDDT
6U4	001 080 230		6				120		REC		30mA	A08	R
6U6	026 540 310		6	14	200	150	56	6.2	100	100	6.2	A08	P
6U7	026 510 310	G <sub>1</sub>	6	3	250	100	8	1.5	100	100	1.5	A08	P
6U8	645 237 114		6	{ 1 1	150 250	0 100	18 10	8.5 5.2	100 150	100	7 5	B9A	TP
6V3	080 230 808	C	6				120		REC		30mA	B9A	R
6V4	8*1 23* 9**		6				30		REC		15mA	B9A	RR
6V5	006 540 320		6	12.5	250	250	45	4.1	100	PenLF	4.1	A08	P
6V6	026 540 310		6	12.5	250	250	45	4.1	100	PenLF	4	A08	P
6V7	026 980 310	G <sub>1</sub>	6	20	250		8	1.1	100		1.1	A08	DDT
6W2	023 000 000	D <sub>1</sub>	6						D			B3G	D
6W3	**1 23* **8		6				120		REC		40mA	B9A	R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
6W4	001 080 230		6				120		REC		30mA	A08	R
6W5	028 090 310		6				60		REC		20mA	A08	RR
6W6	026 540 310		6	9.5	150	150	58	8	100	100	8	A08	P
6W7	026 510 310	G <sub>1</sub>	6	3	250	100	2	1.225	100	100	1.2	A08	P
6X2	023 000 000	D <sub>1</sub>	6						D			B3G	D
6X3	020 000 310	D <sub>1</sub>	6				5		D			A08	R
6X4	802 309 100		6				30		REC		15mA	B7G	RR
6X5	028 090 310		6				30		REC		15mA	A08	RR
6X8	146 231 547		6	1.0	100		8.5	5.8	100	60	5.0		
6Y3	020 000 300	D <sub>1</sub>	6	1.8	250	150	7.7	4.6	100	150	4.0	B9A	TP
			6				30		REC		15mA	A08	R
6Y5	208 193 000		6				30		REC		15mA	UX6	RR
6Y6	026 540 310		6	13.5	150	150	58	7	100	100	7	A08	P
6Y7	027 446 310		6	0	250		5.3		200			A08	TT
6ZY5	028 090 310		6				15		REC		15mA	A08	RR
6Z3	381 200 000		6				60		REC		20mA	UX4	R
6Z4	289 130 000		6				30		REC		15mA	UX5	RR
6Z5	328 192 000		6				30		REC		15mA	UX6	RR
6Z6	028 190 310		6				30		REC		15mA	A08	RR
6Z7	026 447 310		6	0	175		4.2	0.55	150		0.55	A08	TT
7AB7	526 141 310		6	2	250	100	4	1.8	100	100	1.2	B8B	P
7AC7	412 365 100		6		300	150	10	9	100	100	8	B7G	P
7AD7	265 104 130		6	2.3	300	150	28	9.5	100	150	9	B8B	P
7AF7	217 446 130		6	9	250		9	2.1	100		2.1	B8B	TT
7AG7	265 114 130		6	2	250	250	6	4.2	200	200	4.2	B8B	P
7AH7	265 114 130		6	2	250	250	6.8	3.3	100	150	3.3	B8B	P
7AJ7	265 104 130		6	3	250	100	2.2	1.575	100	100	1.5	B8B	P
7AK7	265 104 130		6	0	150	90	40	6.5	150	90	6	B8B	P
7AN7	147 234 116		7.5	1.5	90		12	6	100		6	B9A	TT
7AU7	741 226 413		3.5	8.5	250		10.5	2.2	100		2.2	B9A	TT
7A2	642 310 000	S	4	16.5	250	250	34	2.35	100	PenLF	2.3	B5	P
7A2	045 231 600		4	16.5	250	250	34	2.35	100	PenLF	2.3	B7	P
7A3	045 231 600		4	6	250	250	32	10	100	PenLF	9	B7	P
7A4	260 0*4 130		6	8	250		9	2.6	100		2.6	B8B	T
7A5	265 004 130		6	9	125	125	44	6	100	90	6	B8B	P
7A6	219 008 130		6				5		D			B8B	RR
7A7	265 104 130		6	3	250	100	9.2	2	100	100	2	B8B	P
7A8	266 451 130		6	1	250	100	14	1.4	100	100	1.6	B8B	O
7B4	260 004 130		6	2	250		0.9	1.5	200		1.5	B8B	T
7B5	265 004 130		6	18	250	250	32	2.3	100	PenLF	2.3	B8B	P
7B6	264 *89 130		6	2	250		0.9	1.1	200		1.1	B8B	DDT
7B7	265 104 130		6	3	250	100	8.5	1.75	100	100	1.7	B8B	P
7B8	265 454 130		6	2	250	100		1.15	100	100	1.1	B8B	H
7C4	2*0 800 130		6				5		D			A08	R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
7C5	265 004 130		6	12.5	250	250	45	4.1	100	PenLF	4.1	B8B	P
7C5LT	265 004 130		6	12.5	250	250	45	4.1	100	PenLF	4.1	B8B	P
7C6	264 198 130		6	1	250		1.3	1	250		1	B8B	DDT
7C7	265 114 130		6	3	250	100	2	1.3	100	100	1.3	B8B	P
7D3	045 231 600		40	18	150	125	33	2.4	100	100	2.4	B7	P
7D5	045 231 600		13	16.5	250	250	34	2.35	100	PenLF	2.3	B7	P
7D6	045 231 600		40	6	250	250	32	10	100	PenLF	9	B7	P
7D8	045 231 600		13	6	250	250	32	10	100	PenLF	9	B7	P
7D9	412 360 500		6	13.5	250	250	16	2.6	100	PenLF	2.6	B7G	P
7D9	045 231 600		13	25	250	250	32	1.8	100	PenLF	1.8	B7	P
7D10	*41 230 651		6	4.5	250	250	40	11	100	150	9	B9A	P
7E5	426 141 630		6	3	175		5.5	3	150		3	B8B	T
7E6	264 *98 130		6	8	250		9.5	1.9	100		1.9	B8B	DDT
7E7	269 854 130		6	3	250	100	7.5	1.3	100	100	1.3	B8B	DDP
7F7	217 446 130		6	2	250		2.3	1.6	200		1.6	B8B	TT
7F8	427 116 340		6	3	250		6	3.3	200		3.3	B8B	TT
7G7	265 114 130		6	2	250	100	6	4.5	100	100	4.5	B8B	P
7G8	265 441 730		6	2.5	250	100	4.5	2.1	100	100	2.1	B8B	PP
7H6	265 114 130		6	2.5	250	150	9.5	3.5	100	150	3.5	B8B	P
7H7	265 114 130		6	2	250	150	10	4.2	100	150	4.2	B8B	P
7J7	276 454 130		6	{ 3 3	150 250	100	6.6 1.4	1.4	150 100		1.4	B8B	TH
7K7	216 498 130		6	2	250		2.3	1.6	200		1.6	B8B	DDT
7L7	265 104 130		6	1.5	250	100	4.5	3.1	100	100	3.1	B8B	P
7N7	217 446 130		6	8	250		9	2.6	100		2.6	B8B	TT
7Q7	266 414 130		6	2	100		15	6	100		4.5	B8B	H
7R1	280 300 000		7.5				60		REC		20mA	UX4	R
7R7	269 854 130		6	1	250	100	6.2	3.4	100	100	3.4	B8B	DDP
7S7	276 454 130		6	{ 1 2	100 250	100	4.8 4	1.4 2	100 100		1.65	B8B	TH
7T7	265 104 130		6	1	250	150	10.8	4.9	100	150	4.9	B8B	P
7V7	265 114 130		6	2	300	150	10	5.8	100	150	5.8	B8B	P
7W7	265 114 130		6	2	300	150	10	5.8	100	150	5.8	B8B	P
7X6	218 009 130		6				30		REC		15mA	B8B	RR
7X7	264 189 130		6	1	250		1.9	1.5	250		1.5	B8B	DDT
7Y4	208 009 130		6				30		REC		15mA	B8B	RR
7Z4	209 008 130		6				60		REC		20mA	B8B	RR
8A1	041 231 500	A	4	1.5	200	75	3.5	4	100	75	4	B7	P
8A1	542 310 000	A	4	1.5	200	75	3.5	4	100	75	4	B5	P
8A2	542 310 000	A	4	2.1	200	100	3	2.4	100	100	2.4	B5	P
8A8	645 237 114		9	{ 2.0 2.0	100 175	175	14.0 10.0	5.0 6.2	100 100	60 150	5.0 6.0	B9A	TP
8D2	061 231 500	G <sub>1</sub>	13	3	250	100	2	1.25	100	100	1.25	B7	P
8D3	412 361 500		6	2	250	250	10	7.5	100	150	5	B7G	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
8D4	026 510 310	G <sub>1</sub>	6	2	250	100	3	1.8	100	100	1.8	A08	P
8D5	041 230 651		6	3	250	100	2	1.225	100	100	1.2	B9A	P
8D6	141 230 651		6	2.0	175	175	10.0	2.5	100	100	2.5	B9A	P
8D7	001 230 651	G <sub>1</sub>	6	3	250	100	2	1.25	100	100	1.2	B9A	P
9A1	045 231 500	A	4	1.5	200	75	5	4.25	100	75	4.2	B7	P
9A1	542 310 000	A	4	1.5	200	75	5	4.25	100	75	4.2	B5	P
9A3	061 231 500	G <sub>1</sub>	4	2	250	125	10	1.8	100	100	1.8	B7	P
9BW6	*41 230 651	G <sub>1</sub>	9	12.5	250	250	45	4.1	100	150	4	B9A	P
9D2	061 231 500		13	3	250	125	10.5	1.65	100	100	1.8	B7	P
9D6	412 361 500		6	2.5	250	200	8	2.5	100	100	2.5	B7G	P
9U8	645 237 114		9.5	{ 1.0 150 1.0 250			18.0 10.0	8.5 5.2	100 100	60 100	8.5 5.0	B9A	TP
10	264 300 000		7.5	32 350			16	1.55	100		1.55	UX4	T
10C1	276 454 130		28	{ 3.3 100 2.5 175		100	6 8	3 2.5	100 100		3 2.5	B8A	TH
10C2	276 454 130		28	{ 3.3 100 1.5 175		100	6.0 3.0	3.0 5.0	100 100	60 100	3.0 5.0	B8A	TP
10D1	892 310 000		13				5		D			B5	RR
10D2	192 310 800		19				5		D			B7G	RR
10F1	261 514 130		22	1.8 200	200		10	9	100	150	7	B8A	P
10F3	260 154 130		22	2.35 200	200		6	6.5	100	150	7	B8A	P
10F9	260 154 130		13	2.5 175	100		7	2.3	100	100	2.3	B8A	P
10LD3	264 098 130		14	1.1 150			0.5	1.95	150		1.9	B8A	DDT
10LD11	264 098 130		15	5.9 250			5	2.3	100		2.3	B8A	DDT
10P13	260 054 130		40	6.0 150	150		29	7.5	100	100	6.0	B8A	P
10P14	026 540 310		40	11 200	200		40	7.4	100	Penl.F	6	A08	P
11	362 400 000		1.1	4.5 90			2.5	0.425	80		0.4	UX4	T
11A2	908 231 600	G <sub>1</sub>	4	2 200			3	2.8	150		2.8	B7	DDT
11D3	908 231 600	G <sub>1</sub>	13	2 250			0.4	1.1	200		1.1	B7	DDT
11D5	908 231 600	G <sub>1</sub>	13	3 250			3.8	1.5	150		1.5	B7	DDT
11E1	216 540 030		6	250	250		50	7.3	100	100	7	M08	P
11E2	020 540 310	A	6	200	200		25	9	100	150	8	A08	P
11E8	200 647 310	G <sub>1</sub>	11	150			20		100			A08	TT
11X5	028 090 310		11				30		REC		15mA	A08	RR
12	364 200 000		1.1	4.5 90			2.5	0.425	80		0.4	UX4	T
12AH7	417 146 230		12.5	3.6 100			3.7	1.55	80		1.55	A08	TT
12AH8	541 227 463		6	{ 0 100 1.3 250		100	6.0 2.6	3.5	100	100	3.5	B9A	TH
12AK7	741 226 413		6	2 250			1.2	1.6	150		1.6	B9A	TT
12AL5	192 310 800		12.5				5		D			B7G	RR
12AQ5	412 365 400		12.5	12.5 250	250		45	4.1	100	150	4	B7G	P
12AT6	412 389 600		12.5	3 250			1	1.2	200		1.2	B7G	DDT
12AT7	741 226 413		6	2 250			10	5.5	200		5	B9A	TT
12AU6	412 365 100		12.5	1 250	150		10.8	5.2	100	100	5.2	B7G	P
12AU7	741 226 413		6	8.5 250			10.5	2.2	100		2.2	B9A	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
12AV5	421 060 350		12	22.5	250	150	55	5.5	100	100	5.8	A08	P
12AV6	412 389 600		12.5	2	250		1.2	1.6	150		1.6	B7G	DDT
12AV7	741 226 413		6	1.0	150		18	8.5	100		7	B9A	TT
12AW6	412 365 100		12.5	1.5	250	150	7	5	100	PenLF	5	B7G	P
12AW7	412 365 100		12.5	1.8	250	150	7	5	100	150	5	B7G	P
12AX4	001 080 230		12.5				120		REC		35mA	A08	R
12AX7	741 226 413		6	2	250		1.2	1.6	150		1.6	B9A	TT
12AY7	641 227 413		6	4	250		3	1.75	100		1.7	B9A	TT
12AZ7	741 226 413		12	2.0	250		10.0	5.5	100		5.5	B9A	T
12A	264 300 000		5	4.5	90		5	1.5	80		1.5	UX4	T
12A5	265 413 200		6	15	100	100	17	1.7	100	90	1.7	UX7	P
12A6	026 540 310		12.5	12.5	250	250	30	3	100	PenLF	3	A08	P
12A7	265 181 300	G <sub>1</sub>	12.5	12.5	150	150	30 9	0.975	REC 100		15mA 0.9		
12A8	026 545 310	G <sub>1</sub>	12.5		250	100	3.5	1.15	100	100	1.1	Sm7 A08	RP H
12BA6	412 365 100		12.5	1	250	100	11	4.4	100	100	4.4	B7G	P
12BA7	641 231 106		12.5	2	100		18	7	100		7	B9A	H
12BD6	412 365 100		12.5	3	250	100	9	2	100	100	2	B7G	P
12BE6	412 366 100		12.5	2	100		11	7	100		5	B7G	H
12BF6	412 398 600		12.5	9	250		9.5	1.9	100		1.9	B7G	DDT
12BH7	741 226 413		6	10.5	250		11.5	3.1	100		4	B9A	TT
12BK6	412 389 600		12.5	2	250		1.2	1.6	150		1.6	B7G	DD
12BN6	142 354 600		12.5	1	60	60	0.25	1	80	60	1	B7G	P
12BT6	412 389 600		12.5	3	250		1.0	1.2	150		1.2	B7G	DDT
12BU6	412 389 600		12.5	9	250		9.5	1.9	150		1.9	B7G	DDT
12BY7	141 223 651		12	2.1	250	150	25	12.0	150	100	10.0	B9A	P
12BZ7	741 226 413		12	2.0	250		2.5	3.2	100		3.0	B9A	TT
12B6	026 080 310	G <sub>1</sub>	12.5	2	250		0.9	1.1	150		1.1	A08	DT
12B7	265 104 130		12.5	3	250	100	9.2	2	100	100	2	B8B	P
12B8	127 561 340	G <sub>1</sub>	12.5	3	90	0	2.8	2.4	80		2.4		
					90	90	7	1.8	80	90	1.8	A08	TP
12C8	026 985 310	G <sub>1</sub>	12.5	3	250	125	10	1.325	100	100	1.3	A08	DDP
12E1	020 540 310	A	6	18	150	150	100	9.6	100	100	10	A08	P
12E5	026 040 310		12.5	13.5	250		5	1.45	100		1.4	A08	T
12F5	020 600 310	G <sub>1</sub>	12.5	2	250		0.9	1.5	150		1.5	A08	T
12G7	026 980 310	G <sub>1</sub>	12.5	3	250			1.2	150		1.2	A08	DDT
12H6	029 180 310		12.5						D			A08	DD
12J5	026 040 310		12.5	8	250		9	2.6	100		2.6	A08	T
12J7	026 510 310	G <sub>1</sub>	12.5	3	250	100	2	1.225	100	100	1.2	A08	P
12K7	026 510 310	G <sub>1</sub>	12.5	3	250	125	10.5	1.65	100	100	1.6	A08	P
12K8	027 546 310	G <sub>1</sub>	12.5	3	100		8	2.5	100		3	A08	TH
					250	100	4	1.2	100	100	1.6		
12L6	026 540 310		12	8.25	200	125	46	8.0	100	100	8.0	A08	P
12L8	414 752 360		12.5	9	175	175	13	2.15	100	100	2.1	A08	PP

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
I2NK7	026 510 310	G <sub>1</sub>	12.5	2	250	100	5	2.3	100	100	2.3	A08	P
I2Q7	026 980 310	G <sub>1</sub>	12.5	3	250		1	1.2	150		1.2	A08	DDT
I2SA7	126 641 340		12.5	3.6	100		12	4.3	100		4.5	A08	H
I2SA7G	026 641 340		12.5	3.6	100		12	4.3	100		4.5	A08	H
I2SC7	074 461 230		12.5	2	250		2	1.325	150		1.3	A08	TT
I2SF5	014 060 320		12.5	2	250		0.9	1.5	150		1.5	A08	T
I2SF7	041 586 230		12.5	1	250	100	12.9	2.05	100	100	2	A08	DP
I2SG7	021 415 360		12.5	1	250	125	11.8	4.7	100	100	4.7	A08	P
I2SH7	021 415 360		12.5	1	250	150	10.8	4.9	100	150	4.9	A08	P
I2SJ7	021 415 360		12.5	3	250	100	3	1.65	100	100	1.6	A08	P
I2SK7	021 415 360		12.5	3	250	100	9.2	2	100	100	2	A08	P
I2SL7	461 471 230		12.5	2	250		2.3	1.6	150		1.6	A08	TT
I2SN7	461 471 230		12.5	8	250		9	2.6	100		2.6	A08	TT
I2SQ7	041 896 230		12.5	2	250		0.9	1.1	150		1.1	A08	DDT
I2SR7	041 986 230		12.5	9	250		9.5	1.9	100		1.9	A08	DDT
I2SS7	021 415 360		12.5	3	250	100	9	1.85	100	100	1.8	A08	P
I2SW7	041 986 230		12.5	9	250		9.5	1.9	100		1.9	A08	DDT
I2SX7	471 461 230		12.5	B	250		9	2.6	100		2.6	A08	TT
I2SY7	126 641 340		12.5	1	100		22	4.5	100		4.5	A08	H
I2S8	†18 916 230	G <sub>1</sub>	12.5	2	250		0.9	1.1	150		1.1	A08	DDDT
I2V6	026 540 310		12.5	12.5	250	250	45	4.1	100	150	4	A08	P
I2W6	026 540 310		12	9.5	150	150	58	8.0	100	100	8.0	A08	P
I2X3	210 300 000	D <sub>1</sub>	12.5				60		REC		20mA	UX4	R
I2X4	802 309 100		12.5				30		REC		15mA	B7G	RR
I2Y4	892 310 000		12				31		REC		15mA	UX4	RR
I2Z3	281 300 000		12.5				60		REC		20mA	UX4	R
I2Z5	281 319 200		6				30		REC		15mA	UX7	RR
I3	298 300 000		5				60		REC		20mA	UX4	RR
I3BC1U	206 081 930	G <sub>1</sub>	12.5	1.8	200		3	2	150		2	B8B	DDT
I3BF2U	206 581 930	G <sub>1</sub>	12.5	2.1	200	200	5	2	100	200	2	B8B	DDP
I3DHA	908 231 600	G <sub>1</sub>	13	1.5	250		1	1.5	150		1.5	B7	DDT
I3DI	461 471 230		25	8	250		2	2.6	100		2.5	A0B	TT
I3D2	461 471 230		6	8	250		9	2.6	100		2.6	A08	TT
I3D3	741 226 413		6	4.6	250		6	2.3	100		2.3	B9A	TT
I3F9U	206 501 130	G <sub>1</sub>	12.5	2.6	200	200	6.2	2.2	100	200	2.2	B8B	P
I3HI	023 110 560	G <sub>1</sub>	13	2	200	100	3	2	100	100	2	8SC	P
I3H2	023 110 560	G <sub>1</sub>	13	3	200	100	8.2	1.8	100	100	1.8	8SC	P
I3PGA	645 231 700	G <sub>1</sub>	13	20 3	200 250	100	4 3.5		100 100	100		B7	H
I3SPA	061 231 500	G <sub>1</sub>	13	3	200	100	2.3	1.25	100	100	1.25	B7	P
I3VI	023 189 560	G <sub>1</sub>	13	8.5	200	200	45	4.4	100	PenLF	4	8SC	DDP
I3VPA	061 231 500	G <sub>1</sub>	13	3	200	100	7	1.8	100	100	1.8	B7	P
I4	265 130 000	G <sub>1</sub>	14	3	250	90	4	1.05	100	90	1	UX5	P
I4AF7	216 447 130		12.5	9	250		9	2.1	100		2.1	B8B	TT
I4A4	260 0*4 130		12.5	8	250		9	2.6	100		2.6	B8B	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
14A5	265 004 130		12.5	12.5	250	250	30	3	100	PenLF	3	B8B	P
14A7	265 104 130		12.5	3	250	100	9.2	2	100	100	2	B8B	P
14B6	264 *89 130		12.5	2	250		0.9	1.1	150		1.1	B8B	DDT
14B8	265 454 130		12.5	2	250	100		1.15	100	100	1.1	B8B	P
14C5	265 004 130		12.5	15	250	250	70		100	PenLF		B8B	P
14C7	265 114 130		12.5	3	250	100	2.2	1.575	100	100	1.5	B8B	P
14E6	264 *98 130		12.5	8	250		9.2	1.9	100		1.9	B8B	DDT
14E7	269 854 130		12.5	3	250	100	7.5	1.3	100	100	1.3	B8B	DDP
14F6	026 540 310		14	16.5	250	250	35	2.5	100	150	2.5	A08	P
14F7	217 446 130		12.5	2	250		2.3	1.6	150		1.6	B8B	TT
14F8	427 116 340		12.5	3	250		6	3.3	150		3.3	B8B	TT
14H7	265 114 130		12.5	2	250	150	10	4.2	100	100	4.2	B8B	P
14J7	276 454 130		12.5	{ 3 3	150 250	100	6.6 1.4	1.4	100 100		1.4	B8B	TH
14N7	217 446 130		12.5	8	250		9	2.6	100		2.6	B8B	TT
14Q7	266 414 130		12.5	2	100		15	6	100		4.5	B8B	H
14R7	269 854 130		12.5	1	250	100	6.2	3.4	100	100	3.4	B8B	DDP
14S7	276 454 130		12.5	{ 1 2	100 250	100	4.8 4	1.4 2	100 100		1.6	B8B	TH
14V7	265 104 130		12.5	2	300	150	9.6	5.8	100	100	5.8	B8B	P
14W7	265 114 130		12.5	2.2	300	150	10	5.8	100	100	5.8	B8B	P
14X7	264 189 130		12.5	1	250		1.9	1.5	150		1.5	B8B	DDT
14Y4	208 009 130		12.5				30		REC		15mA	B8B	RR
14Z3	281 300 000		12.5				60		REC		20mA	UX4	R
15	265 130 000	G <sub>1</sub>	2	1.5	150	75	1.85	0.75	100	75	0.75	UX5	P
15A2	645 231 700	G <sub>1</sub>	4	{ 20 3	200 250	100	4 3.5		100	100		B7	H
15A6	541 231 600		15	2.9	175	175	36	10	100	100	9	B9A	P
15D1	645 231 700	G <sub>1</sub>	13	{ 20 3	200 250	100	4 3.5		100	100		B7	H
15D2	645 231 700	G <sub>1</sub>	13	{ 20 3	200 250	100	4 3.5		100	100		B7	H
15X6	029 180 310		25				30		REC		15mA	A08	RR
16A5	*41 23* 6*5		16	14.2	200	200	45	7.5	100	100	7	B9A	P
16D1	046 231 700		13		300		45		100			B7	TT
17	264 130 000		14	6	90		2.7	0.8	80		0.8	UX5	T
17D1	869 231 500	G <sub>1</sub>	13	3	250	125	9	1.1	100	100	1.1	B7	DDP
17Z3	*** 23* **8	C	17				120		REC		36mA	B9A	R
18	265 413 000		14	16.5	250	250	34	2.5	100	PenLF	2.5	UX6	P
19AQ5	412 365 400		19	12.5	250	250	47	4.1	100	150	4	B7G	P
19BG6	021 040 350	A	19	15	250	250	75	6.0	100	PenLF	6.0	A08	P
19C8	8†1 239 146		19	1	100		0.5	1.25	100		1.2	B9A	DDDT
19G3	020 000 300	D <sub>1</sub>	4				30		REC		17mA	A08	R
19G6	112 311 100	D <sub>1</sub>	4				30		REC		15mA	B7G	R
19H1	002 300 000	D <sub>1</sub>	4				60		REC		23mA	B4	R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
19H4	020 000 300	D <sub>1</sub>	2-5				30		REC		13mA	A08	R
19J6	762 344 100		19	1	100		8.5	5.3	100		5.3	B7G	TT
19T8	†91 238 146		19	3	250		1	1.2	150		1.2	B9A	DDDT
19W3	**1 23* *08		19				120		REC		35mA	B9A	R
19X3	**1 23* **8		19				120		REC		40mA	B9A	R
19X8	146 231 457	G <sub>1</sub>	19	{ 1.0 1.8	100 250	150	8.5 7.7	5.8 4.6	100 100	60 150	5.0 4.0	B9A	TP
19Y3	**1 23* **8		19				120		REC		40mA	B9A	R
19	364 472 000		2	3	150		1.7		100			UX6	TT
20	364 200 000		3	16.5 3	90 100		3	0.415	80		0.4	UX4	T
20A1	645 231 700		4	{ 12.5 1.5	100 250	75	2.3 2.2		100 100	75		B7	TH
20D1	182 310 900		9.5				5		D			B7G	RR
20D2	745 231 600		13	{ 7.5 3	100 250	100	3.8 2.5		100 100	100		B7	TH
20D3	541 227 463		6	{ 1 3	100 250	100		3.6	100 100		3.6	B9A	TH
20F2	260 154 130		11	1.25	150	150	27	10.6	100	100	9.0	B8A	P
20J8	027 546 310		20	{ 1.5 3	100 250	100	1.5 1.5		100 100	100		A08	H
20L1	274 164 130	A	12	12.0	250		10.0	2.8	100		2.8	B8A	TT
20P1	020 540 310		38	30	200	200	80	6	100	100	5	A08	P
20P2	020 540 310		38	7.5	225	225		13.5	100	100	10	A08	P
20P3	026 540 310		20	9.4	175	175	42	7.2	100	100	6	A08	P
20P4	020 540 310		38									A08	P
20P5	260 054 130	A	20	6.3	180	150	29	7.5	100	100	7.0	A08	P
21A6	*41 23* *51		21.5	28	200			6	100	100	5	B9A	P
21A7	276 454 130		21	{ 3	150 250		3.5 1.3		100 100	100			
22	365 200 000		3	1.5	150	50	1.7	0.375	No Data	Available		UX4	P
22AC	265 300 000		2.5	3	90	90	4	1.05	80	90	1	UX4	P
24A	265 130 000	G <sub>1</sub>	2.5	3	175	90	4	1	100	90	1	UX5	P
24E	265 130 000	G <sub>1</sub>	2.5	3	175	90	4	1	100	90	1	UX5	P
24NG	281 193 000		40				30		REC		15mA	UX6	RR
24S	265 130 000	G <sub>1</sub>	2.5	3	175	90	4	1	100	90	1	UX5	P
25	542 300 000	A	2		150	75	2.5	1	100	75	1	B5	P
25AC1D	206 008 030	G <sub>1</sub>	1.4	0	125		0.76	0.4	100		0.4	A08	DT
25AV5	421 060 350		25	22.5	250	150	55	5.5	100	100	5.8	A08	P
25A6	026 540 310		25	18	150	125	33	2.375	100	100	2.3	A08	P
25A7	126 548 310		25	{ 15	100	100	60 20.5		REC 100		20mA 1.8	A08	RP
25BK5	604 231 450		25	5	250	250	35	8.5	100	150	8	B9A	P
25BQ6	020 540 310	A	25	22.5	250	150	55	5.5	100	100	5	A08	P
25B6	026 540 310		25	22	150	150	61	5	100	100	5	A08	P
25B8	127 561 340		25	{ 1.0 3.0	100 100		0.6 7.6	1.5 2.0	100 100	60 100	1.5 2.0	A08	TP



VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
25CD6	021 040 350	A	25	30.0	175	175	75	7.5	100	100	7.5	A08	P
25CU6	026 540 310		25	22.5	250	150	65	6.0	100	100	6.0	A08	P
25C6	026 540 310		25	14	200	150	61	7.1	100	100	7	A08	P
25D8	127 546 380	G <sub>1</sub>	25	1.0	100		0.5	1.1	100	60	1.1		
				3.0	100	100	8.5	1.9	100	100	1.9	A08	DP
25FID	206 501 030	G <sub>1</sub>	1.4	2.5	125	125	1.2	0.72	100	100	0.7	A08	P
25L6	026 540 310		25	8.25	200	125	46	8	100	90	8	A08	P
25RE	281 193 000		25				30		REC		15mA	UX6	RR
255N7	461 471 230		25	8	250		9	2.6	REC		2.5	A08	TT
255	268 943 000		2	3	150		0.8	0.57	100		0.57	UX6	DDT
25U4	001 080 230		25				120		100		30mA	A08	R
25V5	028 190 310		25				60		REC		20mA	A08	RR
25W4	001 080 230		25				120		REC		30mA	A08	R
25W6	026 540 310		25	8.5	250	125	46	8	100	100	8	A08	P
25W9	001 080 230		25				120		REC		30mA	A08	R
25X4	020 080 310		25				120		REC		30mA	A08	R
25X5	020 080 310		25				120		REC		30mA	A08	R
25X6	028 190 310		25				30		REC		15mA	A08	RR
25Y4	020 080 310		25				60		REC		20mA	A08	R
25Y5	281 193 000		25				60		REC		20mA	UX6	RR
25Y5G	028 190 310		25				60		REC		20mA	A08	RR
25Y6	028 190 310		25				30		REC		15mA	A08	RR
25Z3	281 300 000		25				60		REC		20mA	UX4	R
25Z4	028 080 310		25				120		REC		30mA	A08	R
25Z5	291 183 000		25				60		REC		20mA	UX6	RR
25Z6	029 180 310		25				60		REC		20mA	A08	RR
26	264 300 000		1.5	10	150		5.5	1.1	100		1.1	UX4	T
26A6	412 365 100		26	1.8	250	250	10.5	4	100	100	4	B7G	P
26A7	414 752 360		26	4.5	30	30	20	5.5	No Data Available			A08	PP
26B6	026 540 310		35	18	250	125	33	2.375	100	90	2.3	A08	P
26BK6	412 389 600		26	2	250		1.2	1.6	150		1.6	B7G	DDT
26C6	412 398 600		26	9	250		9.5	1.9	100		1.9	B7G	DDT
26D6	412 365 100		26	0	100	100	2.7	7.2	100	100	6	B7G	H
26NG	281 193 000		40				30		REC		15mA	UX6	RR
27	264 130 000		2.5	21	250		5.2	0.95	100		0.95	UX5	T
275	264 130 000		2.5	21	250		5.2	0.95	100		0.95	UX5	T
275U	320 080 210		13				120		REC		30mA	A08	R
28D7	245 671 430		28	3.5	30	30	12.5	3.4	No Data Available			B8B	PP
28Z5	208 009 130		28				60		REC		20mA	B8B	RR
29	264 413 000		2.5	3	175		4.5	1.45	100		1.4	UX6	T
29CI	220 283 330		4						D			A08	D
30	364 200 000		2	9	150		3	0.9	100		0.9	UX4	T
30CI	645 237 114		9	2.0	100		14	5.0	100	60	5.1		
				2.0	175	175	10.0	6.6	100	150	6.0	B9A	TP
30LI	147 234 116		7.5	3.4	150		16.0	6.6	100		6.0	B9A	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
31	364 200 000		2	22.5	150		8	0.925	100		0.9	UX4	T
32	365 200 000	G <sub>1</sub>	2	3	150	75	1.7	0.64	100	75	0.6	UX4	P
32E	365 200 000	G <sub>1</sub>	2	3	150	75	1.7	0.64	100	75	0.6	UX4	P
32L7	126 548 310		32.5	5	90	90	60		REC		20mA	A08	RP
33	364 520 000		2		14	150	38	6	80	75	6		
						150	14.5	1.45	100	100	1.4	UX5	P
33A/138A	204 140 300	A <sub>1</sub> A <sub>2</sub>	6	7	250		15	3	100		3	UX7	TT
33A/158M	216 447 130		6	5	200		20	2.8	100		2.8	B8B	TT
34	365 200 000	G <sub>1</sub>	2	3	150	75	2.8	0.6	100	75	0.6	UX4	P
34E	365 200 000	G <sub>1</sub>	2	3	150	75	2.8	0.6	100	75	0.6	UX4	P
35	265 130 000	G <sub>1</sub>	2.5	3	250	90	6.5	1.05	100	75	1.05	UX5	P
35A5	265 004 130		35	8	200	100	41	5.9	100	90	5.9	B8B	P
35B5	412 365 400		35	7.5	125	100	40	5.8	100	90	5.8	B7G	P
35C5	142 345 600		35	7.5	125	100	40	5.8	100	90	5.8	B7G	P
35L6	026 540 310		35	7.5	200	100	40	5.8	100	90	5.8	A08	P
35RE	281 193 000		35				60		REC		20mA	UX6	RR
35S	265 130 000	G <sub>1</sub>	2.5	3	250	90	6.5	1.08	100	90	1.08	UX5	P
35W4	003 282 100		30				60		REC		20mA	B7G	R
35Y4	280 200 130		27.5				60		REC		20mA	B8B	R
35Y5	280 200 130		27.5				60		REC		20mA	B8B	R
35Z3	280 000 130		35				120		REC		20mA	B8B	R
35Z3LT	280 000 130		35				120		REC		30mA	B8B	R
35Z4	020 080 310		35				120		REC		30mA	A08	R
35Z4GT	020 080 310		35				120		REC		30mA	A08	R
35Z5	022 080 310		27.5				60		REC		20mA	A08	R
35Z6	028 190 310		35				60		REC		20mA	A08	RR
36	265 130 000	G <sub>1</sub>	6	3	250	90	3.2	1.08	100	90	1.08	UX5	
37	264 130 000		6	18	250		7.5	1.1	100		1.1	UX5	T
38	265 130 000	G <sub>1</sub>	6	18	175	175	14	1.05	100	100	1.05	UX5	P
39	265 130 000	G <sub>1</sub>	6	3	175	90	5.8	1	100	90	1	UX5	P
40	364 200 000		5	1.5	175		0.2	0.2	150		0.2	UX4	T
40PPA	045 231 600		40	25	150	150	36	4	100	100	4	B5	P
40SUA	802 310 000		40				60		REC		20mA	B5	R
40Z5	022 080 310		35				120		REC		30mA	A08	R
41	265 413 000		6	18	250	250	32	2.3	100	100	2.3	UX6	P
41E	265 413 000		6	18	250	250	32	2.3	100	100	2.3	UX6	P
41FP	642 310 000		4	18	250		19	2.8	100		2.8	B5	T
41M	026 540 310		6	18	250	250	32	2.3	100	PenLF	2.3	A08	P
41MDG	652 310 000	G <sub>1</sub>	4	0	150	100		0.25	150	100	0.25	B5	P
41MH	642 310 000		4	1.5	200		3.2	4	150		4	B5	T
41MHF	642 310 000		4	2	150		2.5	2.8	125		2.8	B5	T
41MHL	642 310 000		4	3	200		4	4.5	150		4.5	B5	T
41MLF	642 310 000		4	4.5	175		7.5	1.9	125		1.9	B5	T
41MP	642 310 000		4	7.5	200		24	7.5	100		7	B5	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
41MPG	545 231 600	G <sub>1</sub>	4	1.5	250	100	3.3		100	100		B7	H
41MPT	041 231 500	A	4	1.5	250	100	12	4.8	100	100	4.8	B7	P
41MRC	642 310 000		4	1	200		2.5	2.6	150		2.6	B5	T
41MSG	465 230 574		4	1.5	125	60	0.8	2.5	100	60	2.5	B9	PP
41MTA	642 310 000		4	1	100		4.9	4	100		4	B5	T
41MTB	642 310 000		4	1	100		3.6	2.6	100		2.6	B5	T
41MTL	642 310 000		4	2.5	200		5.9	3	100		3	B5	T
41MTS	645 231 700		4	1	250	100	5	1.6	100	100	1.6	B7	PP
41MVSG	542 310 000	A	4	1.5	200	100	3	2	100	100	2	B5	P
41MXP	642 310 000		4	12.5	200		40	7.5	100		7	B5	T
41STH	645 231 700	G <sub>1</sub>	4	1.5	100		2		100				
42	265 413 000		6	1.5	200	60	1		100	60		B7	TH
42E	265 413 000		6	16.5	250	250	34	2.5	100	PenLF	2.5	UX6	P
42MP/Pen	045 231 600		4	5.5	250	250	32	7	100	PenLF	7	B7	P
42MPT	041 231 500	A	4	3	200	200	34	8.5	100	PenLF	8	B7	P
42/OT	045 231 600		4	5.5	250	275	34	7	100	PenLF	7	B7	P
42/OTDD	968 231 500	G <sub>1</sub>	4	5.5	250	250	34	7	100	PenLF	7	B7	DDP
42PTB	061 231 500	G <sub>1</sub>	4	3	200	200	34	8.5	100	150	8	B7	P
42SPT	041 231 500	A	4	10.5	250	250	64	11	100	PenLF	10	B7	P
43	265 413 000		25	18	150	125	33	2.375	100	100	2.3	UX6	P
43E	265 413 000		25	18	150	125	33	2.375	100	100	2.3	UX6	P
43MG	026 540 310		25	18	250	125	33	2.375	100	100	2.3	A08	P
43IU	892 300 000		4				60		REC		20mA	B4	RR
44	265 130 000	G <sub>1</sub>	6	3	175	90	5.8	1	100	90	1	UX5	P
44A/160M	241 657 143		6	30	250	200	30	3.9	100	100	3	B9G	PP
44IU	892 300 000		4				60		REC		20mA	B4	RR
44SU	802 300 000		4				30		REC		15mA	B4	R
45	264 300 000		2.5	50	250		34	2.175	100		2.1	UX4	T
45A	264 300 000		2.5	68	325		43	2.37	100		2.37	UX4	T
45IU	892 300 000		4				120		REC		30mA	B4	RR
45LIU	206 540 130		45	13	200	200	45	7.5	100	100	7	A08	P
45Z3	28* 108 300		45				60		REC		20mA	B7G	R
45Z5	022 080 310		37.5				60		REC		20mA	A08	R
46	264 630 000		2.5	33	250		22	2.35	100		2.3	UX5	T
47	264 530 000		2.5	16.5	250	250	31	2.5	100	PenLF	3.8	UX5	P
48	265 413 000		30	19	100	100	52	3.8	100	90	3.8	UX6	P
49	264 630 000		2	20	125		6	1.125	100		1.1	UX5	T
50	264 300 000		7.5	70	400		55	2.1	100		2.1	UX4	T
50A5	265 004 130		50	7.5	125	100	49	8	100	90	7	B8B	P
50AX6	028 190 310		50				120		REC		30mA	A08	RR
50CID	206 089 030	G <sub>1</sub>	1.4	1.5	100		1.5	0.92	100		0.92	A08	DDT
50B5	412 365 400		50	7.5	125	100	49	7.5	100	90	6	B7G	P
50CD6	021 040 350	A	52	30	175	175		7.5	100	100	7	A08	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
50C5	142 345 600		50	7.5	125	100	49	7.5	100	90	6	B7G	P
50C6	026 540 310		50	13.5	150	150	58	7	100	100	7	A08	P
50F2D	206 501 030	G <sub>1</sub>	1.4	1.5	100	125	1.4	1	100	100	1	A08	P
50LID	206 540 030		1.4	4.5	100	125	4.8	1	100	100	1	A08	P
50L6	026 540 310		50	8.25	200	125	46		100	75	8	A08	P
50X6	219 008 130		50				60		REC		20mA	B8B	RR
50YIU	388 208 120		45				120		REC		30mA	A08	R
50Y6	029 180 310		50				60		REC		20mA	A08	RR
50Y7	028 193 310		46				60		REC		20mA	A08	RR
50Z6	029 180 310		50				120		REC		30mA	A08	RR
50Z7	029 183 310		48				60		REC		20mA	A08	RR
52	264 530 000		6	1	125	100	41	2	125	100	2	UX5	P
52CD6	021 040 350	A	52									A08	P
52KU	030 908 020		5				60		REC		20mA	A08	RR
53	274 146 300		2.5	5	250		6	3.1	100		3.1	UX7	TT
53KU	030 908 020		5				120		REC		30mA	A08	RR
54KU	030 908 020		5				120		REC		30mA	A08	RR
55	269 813 000	G <sub>1</sub>	2.5	20	250		8	1.1	100		1.1	UX6	DDT
56	264 130 000		2.5	13.5	250		5	1.45	100		1.45	UX5	T
56AS	264 130 000		6	13.5	250		5	1.45	100		1.45	UX5	T
57	265 113 000	G <sub>1</sub>	2.5	3	250	100	2	1.225	100	100	1.2	UX6	P
57AS	265 113 000	G <sub>1</sub>	6	3	250	100	2	1.22	100	100	1.2	UX6	P
58	265 113 000	G <sub>1</sub>	2.5	3	250	100	8	1.5	100	100	1.5	UX6	P
58AS	265 113 000	G <sub>1</sub>	6	3	250	100	8	1.5	100	100	1.5	UX6	P
59	265 411 300		2.5	18	250	250	35	2.5	100	PenLF	2.5	UX7	P
59B	265 410 300		2.5	26	250	250	26	6	100	PenLF	6	UX7	P
60/250	892 300 000		4				30		REC		15mA	B4	RR
61BT	020 540 310	A	6	20	200	200	40	4	100	100	4	A08	P
61SPT	520 604 310		6	10.5	250	250	64	11	100	PenLF	9	A08	P
61SPT	021 540 310	A	6	10.5	250	250	64	11	100	PenLF	9	A08	P
62BT	020 540 310	A	6	18	175	175	100	10	100	100	9	A08	P
62DDT	264 098 130		6	3	250		1.0	1.3	150		1.3	B8A	DDT
62TH	276 454 130	G <sub>1</sub>	6	2	100		5	2.2	100		2.6	B8A	TH
				2	150	100	3	2	100	100	3.5		
62VP	261 154 130		6	2.5	250	100	6	2.2	100	100	2	B8A	P
63SPT	256 101 403		6	2	250	250	10	6.5	100	PenLF	6	B9G	P
64	265 130 000	G <sub>1</sub>	6	3	175	90	3.1	1.05	100	90	1.05	UX5	P
65	265 130 000	G <sub>1</sub>	6	3	175	90	4.5	1	100	90	1	UX5	P
66KU	280 009 130		6				30		REC		15mA	B8A	RR
67	264 130 000		6	9	150		5	1.1	100		1.1	UX5	T
67PT	261 054 130		6	7	250	250	36	10	100	50	9	B8A	P
68	265 130 000	G <sub>1</sub>	6	13.5	150	90	14	1.4	100	75	1.4	UX5	P
69	264 413 000		6	3	175		4.5	1.45	150		0.5	UX6	T
70	264 413 000		6	6	175		2.3	0.5	150		0.5	UX6	T
70A7	126 548 310		70	7.5	125	100	40	5.8	100	90	5.8	A08	RP

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
70L7	126 541 390		70	{ 7.5	125	100	60		REC		20mA	A08	RP
71	264 300 000		5		40		40	7.5	100	90	6.5	UX4	T
71A	264 300 000		5		16.5		20	1.7	100		1.7	UX4	T
71B	264 300 000		5		40		10	1.4	80		1.4	UX4	T
72	300 200 000	D <sub>1</sub>	2.5				20	1.7	100		1.7	UX4	T
							30		REC		15mA	UX4	R
73	*2* 0** 3*0	D <sub>1</sub>	2.5				15		REC		10mA	A08	R
75	269 813 000	G <sub>1</sub>	6	2	250		0.9	1.1	150		1.1	UX6	DDT
76	264 130 000		6	13.5	250		5	1.45	100		1.4	UX5	T
77	265 113 000	G <sub>1</sub>	6	3	250	100	2.3	1.25	100	100	1.2	UX6	P
77E	265 113 000	G <sub>1</sub>	6	3	250	100	2.3	1.25	100	100	1.2	UX6	P
78	265 113 000	G <sub>1</sub>	6	3	250	125	10.5	1.65	100	100	1.6	UX6	P
78E	265 113 000	G <sub>1</sub>	6	3	175	75	4	1.1	100	75	1.1	UX6	P
79	274 163 000	G <sub>1</sub>	6	0	250		5.3	1.8	150		1.8	UX6	TT
80	298 300 000		5				60		REC		20mA	UX4	RR
80M	289 300 000		5				60		REC		20mA	UX4	RR
81	280 300 000		7.5				60		REC		20mA	UX4	R
82	289 300 000		2.5				60		REC		20mA	UX4	RR
82V	389 200 000		2.5				60		REC		20mA	UX4	RR
83	289 300 000		5				120		REC		30mA	UX4	RR
83V	398 200 000		5				60		REC		20mA	UX4	RR
84	289 130 000		6				30		REC		15mA	UX5	RR
85	269 813 000	G <sub>1</sub>	6	20	250		8	1.1	100		1.1	UX6	DDT
85AS	268 913 000	G <sub>1</sub>	6	20	250		8	1.1	100		1.1	UX6	DDT
88	289 300 000		5				60		REC		20mA	UX4	RR
89	265 113 000	G <sub>1</sub>	6	10	100	100	9.5	1.2	100	90	1.2	UX6	P
90	264 413 000		2.5	0	150		3.5	1.4	150		1.4	UX6	T
90AC	642 310 000		4	12.5	200		40	7.5	100		7	B5	T
92	264 413 000		6	0	250		3.5	1.4	100		1.4	UX6	T
95	265 413 000		2.5	20	325	300	42	2.3	100	PenLF	2.3	UX6	P
96	281 300 000		10				120		REC		30mA	UX4	R
98	289 130 000		6				30		REC		15mA	UX5	RR
100AC	642 310 000		4	6	200		5	2	100		2	B5	T
104V	642 310 000		4	1	100		15	3.5	100		3.5	B5	T
112A	364 200 000		5	4.5	90		5	1.575	80		1.5	UX4	T
114B	020 000 300	A <sub>1</sub> G <sub>1</sub>	1.4	4.0	175			1.1	100		1.1	A08	T
116/Pen	005 231 600	G <sub>1</sub>	11.5	1	100	100		7	100	100	6	B7	P
117L7	126 458 310		117	{ 5.2	100	100	60		REC		20mA	A08	RP
							43	5.3	100	90	5.3		
117M7	126 458 310		117		100	100	60		REC		20mA	A08	RP
							43	5.3	100	90	5.3		
117Z3	*02 381 000		117				60		REC		20mA	B7G	R
117Z4	020 080 310		117				60		REC		20mA	A08	R
117Z6	029 180 310		117				60		REC		20mA	A08	RR
120	642 310 000		2	12	150		12		100			B	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
I21VP	26* *54 130	A	12.5	3.0	200	126	7.2	2.3	100	150	2.3	B8A	P
I24AC	542 310 000		4	1.4	200	60	1.6	0.9	100	60	0.9	B5	P
I41DDT	264 089 130		14	1.55	170		1.5	1.65	100		1.5	B8A	DDT
I41TH	276 454 130		14	2	100		6.4	2.2	100		2.8		
				2	200	90	2.7	1.5	100	75	1.5	B8A	TH
I42BT	026 540 310		14	8.5	200		29	3.7	100	100	3.7	A08	P
I44V	642 310 000		4	8	200		6	1.4	100		1.4	B5	T
I54V	642 310 000		4	6	200		9	2	100		2	B5	T
I64V	642 310 000		4	9	200		12	3.4	100		3.4	B5	T
I71DDP	541 236 891		17	2	200	125	5	2.2	100	100	2	B9A	DDP
I81	264 300 000		3	30	175		16	1.05	100		1.05	UX4	T
I82A	264 300 000		5	45	200		18	1.5	100		1.5	UX4	T
I82B	264 300 000		5	35	250		18	1.5	100		1.5	UX4	T
I83	264 300 000		5	60	250		30	1.7	100		1.7	UX4	T
I85BT	020 540 310	A	18	18	175	175	100	9.5	100	100	8	A08	P
200A	264 300 000		5	0	50		1.5	0.67	No Data Available			UX4	T
202DDT	809 231 600	G <sub>1</sub>	20	3	200		3	2.4	150		2.4	B7	DDT
202MPG	545 231 600	G <sub>1</sub>	20	1.5	200	100	3.0		100	100		B7	H
202SPB	061 231 500	G <sub>1</sub>	20	1.5	250	100	4.8	2.8	100	100	2.8	B7	P
202STH	645 231 700	G <sub>1</sub>	20	1.5	100		2		100				
				1.5	200	60	1		100	60		B7	TH
202VP	041 231 500	A	20	1.5	250	100	4.3	2.2	100	100	2.2	B7	P
202VPB	061 231 500	G <sub>1</sub>	20	1.5	250	100	4.3	2.2	100	100	2.2	B7	P
203THA	545 231 600	G <sub>1</sub>	20	2	250	100	3.5		100	100		B7	H
210DDT	682 390 000	G <sub>1</sub>	2	1	100		2.3	1.1	100		1.1	B5	DDT
210DET	642 300 000		2	4.5	150		3	1.1	100		1.1	B4	T
210HF	642 300 000		2	3	150		1.6	1.5	100		1.5	B4	T
210HL	642 300 000		2	3	150		1.6	1.1	100		1.1	B4	T
210LF	642 300 000		2	4.5	150		4.8	1.4	100		1.4	B4	T
210PG	642 230 700	G <sub>1</sub>	2	0	150	40	1.1		No Data Available			B7	H
210RC	642 300 000		2	1.5	150		0.4						
				1.5	150		0.85	0.8	150		0.8	B4	T
210SPG	645 230 700	G <sub>1</sub>	2	0	150	40	1.1		No Data Available			B7	H
				0	150	40	0.4						
210SPT	041 230 500	A	2	1	150	60	2.9	1.3	150	60	1.3	B7	P
210T	264 300 000		7.5	32	350		16	1.55	100		1.55	UX4	T
210VPA	041 230 500	A	2	1	150	60	2.9	1.1	150	60	1.1	B7	P
210VPT	041 230 500	A	2	1	150	60	2.9	1.1	150	60	1.1	B7	P
215P	642 300 000		2	7.5	150		10	2.25	100		2.2	B4	T
215SG	542 300 000	A	2	1	150	60	2.5	1.1	150	60	1.1	B4	P
217A	228 300 000		10				120		REC		30mA	UX4	R
220B	446 230 700		2	1	125		3		125			B7	TT
220DD	892 310 000		2						D			B5	DD
220HPT	642 350 000		2	4.5	150	150	8	2.5	100	100	2.5	B5	P
220IPT	040 230 500	A	2	1.5	125	60	2.2	1	100	60	1	B7	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
2200T	642 350 000		2	4.5	150	150	9.5	2.5	100	100	2.5	B5	P
220P	642 300 000		2	7.5	150		11	2.25	100		2.2	B4	T
220PA	642 300 000		2	4.5	150		10	4	100		4	B4	T
220PT	642 350 000		2	9	150	150	19	2.5	100	100	2.5	B5	P
220SG	542 300 000	A	2	1	150	60	3.1	1.6	100	60	1.6	B4	P
220TH	645 230 700	G <sub>1</sub>	2	3 0	100 125		1.7 0.6	1.2 0.6	100 125		1.2 0.6	B7	TH
220VS	542 300 000	A	2	1	150	60	3.6	1.6	100	60	1.6	B4	P
220VSG	542 300 000	A	2	1	150	60	5	1.6	100	60	1.6	B4	P
225DU	082 323 900		2				15		REC		10mA	B7	RR
230	642 300 000		2	20	150		18	3	100		3	B4	T
230PT	642 350 000		2	15	150	150	14	2	100	100	2	B5	P
230XP	642 300 000		2	18	150		22	3	100		2	B4	T
240B	446 230 700		2	1	125		8.5		100			B7	TT
240QP	446 235 700		2	12	150	150	6		100	100		B7	PP
244	264 130 000		2	6	150		5.5	1	100		1	UX5	T
244V	642 310 000		4	5.5	200		5.5	2.8	100		2.8	B5	T
245A	265 130 000	G <sub>1</sub>	2	1.5	150	50	4.8	0.75	No Data Available			UX5	P
247A	206 040 030		2	4.5	150		3.2	0.94	100		0.94	A08	T
249B	223 300 000	D <sub>1</sub>	2.5				120		REC		30mA	UX4	R
252A	264 300 000		5	50	400		60	3.4	100		3.4	UX4	T
255	268 943 000		2	3	150		0.8	0.57	100		0.5	UX6	DDT
257	264 530 000		5	21.5	125	100	20	1.35	100	90	1.3	UX5	P
259A	265 130 000	G <sub>1</sub>	2	1.5	175	75	5.5	1.38	100	75	1.3	UX5	P
259B	265 130 000	G <sub>1</sub>	2	1.5	175	75	5.5	1.38	100	75	1.3	UX5	P
262B	261 300 000	G <sub>1</sub>	10	4.5	150		2.8	0.9	100		0.9	UX4	T
264	264 300 000		1.1	9	150		2.5	0.64	100		0.64	UX4	T
271A	264 130 000		5	30	400		37.5	2.9	100		2.9	UX5	T
272A	264 130 000		10	15	150		5.4	0.76	100		0.76	UX5	T
274A	289 300 000		5				60		REC		20mA	UX4	RR
275A	264 300 000		5	4.5	200		47	2.7	100		2.7	UX4	T
281A	264 530 000		5	60	150	75	35	1.47	No Data Available			UX5	P
283A	265 130 000	G <sub>1</sub>	2	1.5	175	75	5.9	1.36	100	75	1.36	UX5	P
285	265 130 000	G <sub>1</sub>	2	12	175	150	8.8	0.88	100	100	0.88	UX5	P
286A	265 113 000	G <sub>1</sub>	2	1.5	175	75	6.2	1.2	100	75	1.2	UX6	P
290A	265 113 000	G <sub>1</sub>	10	1.5	175		5.4	1.22	150		1.2	UX6	P
291A	275 641 300	G <sub>1</sub>	10	3 7.5	175 175	75	4.5 3.1		No Data Available			B7	H
292A	268 913 000	G <sub>1</sub>	10	6	150		2.1	0.66	100		0.66	UX6	DDT
293A	265 413 000		10	18	175	175	14.5	1.05	100	100	1.05	UX6	P
302THA	645 231 700	G <sub>1</sub>	30	2	100 250	100	1.5 3.5		100 250	100		B7	TH
303A	268 943 000		2	6	150		2	0.64	100		0.64	UX6	DDT
304AC	542 310 000	A	4	2	200	100	3	1.9	100	100	1.9	B5	P
309A	265 413 000		10	1.5	175	75	4.8	1.1	100	60	1.1	UX6	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
310A	265 113 000	G <sub>1</sub>	10	3	150	150	5.5	1.8	100	100	1.8	UX6	P
310B	265 113 000	G <sub>1</sub>	10	3	150	150	5.5	1.8	100	100	1.8	UX6	P
311A	265 130 000	G <sub>1</sub>	10	15	150	150	30	2.8	100	100	2.8	UX5	P
311SU	28* *** 130		31				60		REC		20mA	B8A	R
324A	200 300 000	D <sub>1</sub>	5				5		D			UX4	R
328A	265 113 000	G <sub>1</sub>	7.5	3	150	150	5.5	1.8	100	100	1.8	UX6	P
329A	265 130 000	G <sub>1</sub>	7.5	15	150	150	37.5	3.3	100	100	3	UX5	P
332Pen	026 540 310		33	8.5	200	200	45	8	100	100	7	A08	P
337A	265 113 000	G <sub>1</sub>	10	3	150	150	6.3	1.6	100	100	1.6	UX6	P
345A	289 130 000		6				60		REC		20mA	UX5	RR
347A	020 600 310	G <sub>1</sub>	6	4.5	150		2.8	0.9	100		0.9	A08	T
349A	026 540 310		6	14	250	250	30	4.2	100	PenLF	4.2	A08	P
351A	028 090 310		1				120		REC		30mA	A08	RR
352A	268 913 000	G <sub>1</sub>	10	6	150		2.1	0.65	100		0.65	UX6	DDT
354V	642 310 000		4	4.5	250		6.5	3.5	100		3	B5	T
361A	243 560 000		1.4		50	40	0.4	0.57	No Data Available			UX5	P
362A	243 560 000		1.4		50	50	1.26	0.57	No Data Available			UX5	P
383A	120 406 030		6		125		7.5	2.8	100		2.8	A08	T
401A	264 300 000		5	9	50		1.5	0.8	No Data Available			UX4	T
402	264 300 000		3	40	175		40	1	100		1	UX4	T
402-OT	005 231 600	G <sub>1</sub>	40	12	250	250	32	7	100	PenLF	7	B7	P
402P	000 231 600	G <sub>1</sub>	4	12.5	200		20	7.5	100		7	B7	T
402Pen	005 231 600	G <sub>1</sub>	40	6.7	200	200	40	7	100	100	7	B7	P
402PenA	005 231 600	G <sub>1</sub>	40	9	150	150	56	8	100	100	8	B7	P
405BU	892 300 000		4				15		REC		10mA	B4	RR
406	642 300 000		4		150		5.5	0.5	100		0.5	B4	T
408BU	892 300 000		4				15		REC		10mA	B4	RR
410HF	642 300 000		4	2.5	200		0.2	0.22	100		0.2	B4	T
410P	642 300 000		4	16	250		12	1.8	100		1.8	B4	T
410RC	642 300 000		4	2.5	200		0.2	0.2	100		0.2	B4	T
410SG	542 300 000	A	4	1	200	100	4.5	0.9	100	100	0.9	B4	P
412BU	892 300 000		4				30		REC		17 mA	B4	RR
412SU	802 300 000		4				60		REC		22 mA	B4	R
415PT	642 350 000		4	25	300	200	20	1.7	100	PenLF	1.7	B5	P
415QT	642 350 000		4	25	300	200	20	1.8	100	PenLF	1.8	B5	P
415SP	642 300 000		4	18	150		11	1.6	100		1.6	B4	T
425PT	642 350 000		4	17	250	150	12	1.3	100	100	1.3	B5	P
441U	892 300 000		4				60		REC		20mA	B4	RR
442BU	892 300 000		4				60		REC		20mA	B4	RR
450	642 300 000		4	55	250		50	3.5	100		3.5	B4	T
450	264 300 000		7.5		400		55	2.1	100		2.0	UX4	T
450AC	542 310 000	A	4		200	100	3.5	3	100	100	3	B5	P
451PT	26* *54 130		45	9	175	175	54.5	9.5	100	100	7	B8A	P
460BU	892 300 000		4				60		REC		20mA	B4	RR
482A	264 300 000		5	45	200		18	1.5	100		1.5	UX4	T



VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
482B	264 300 000		5	35	250		18	1.5	100		1.5	UX4	T
483	264 300 000		5	60	250		30	1.7	100		1.7	UX4	T
484V	642 310 000		4	2.5	200		0.25	1.2	100		1.2	B5	T
485	264 130 000		3	9	175		5.8	1.4	100		1.4	UX5	T
486	026 040 300		3	3	90		3	0.61	80		0.6	A08	T
500	892 300 000		4				30		REC		15mA	B4	RR
506	892 300 000		4				30		REC		15mA	B4	RR
506BU	892 300 000		4				30		REC		15mA	B4	RR
506K	892 300 000		2				30		REC		15mA	B4	RR
509	892 300 000		2				60		REC		20mA	B4	RR
605	642 300 000		4	6	150		10	1.4	100		1.4	B4	T
615	642 300 000		4	41	150		4	1.4	100		1.4	B4	T
620T	642 300 000		6	95	400		62.5	2.3	100		2.3	B4	T
660	642 300 000		6	100	400		120	2.3	100		2.3	B4	T
680XP	642 300 000		6	100	400		3.5	1.1	100		1.1	B4	T
713A	021 415 360		6	2	125	125	7.5	3.95	100	100	3.9	A08	P
717A	021 415 360		6	2	125	125	7.5	4	100	100	4	A08	P
731A	412 365 100		6	2.3	150	150	7	4.3	100	100	4	B7G	P
802	205 411 300	A	6	18	400	250	30	2.2	No Data Available			UX7	P
805	642 300 000		6	6	150		10	1.4	100		1.4	B4	T
807	254 130 000	A	6	12.5	400	250	83	6.5	100	PenLF	6	UX5	P
816	200 300 000	D <sub>1</sub>	2.5				120		REC		30mA	UX4	R
825	642 300 000		6	0	150		6	1.4	150		1.4	B4	T
825BU	892 300 000		7.5				60		REC		20 mA	B4	RR
836	2** 00* 300	D <sub>1</sub>	2.5				120		REC		30mA	B7G	R
840	254 130 000	A	2	3	175	75	1	0.4	100	60	0.4	UX5	P
842	264 130 000		7.5	100	400		25	1.25	100		1.25	UX5	T
843	264 130 000		2.5	25	350		25	1.7	100		1.7	UX5	T
864	364 200 000		1.1	4.5	90		2.9	0.61	80		0.61	UX4	T
871	200 300 000	D <sub>1</sub>	2.5				120		REC		30mA	UX4	R
879	300 200 000	D <sub>1</sub>	2.5				5		D			UX4	R
884	026 040 310		6		300		55	4KΩ	No Data Available			A08	Thyratron
885	264 130 000		2.5		300		55	4KΩ	No Data Available			UX5	Thyratron
904V	642 310 000		4	2	200		2	2	150		2	B5	T
950	041 230 500	A	2	16.5	175	150	7	0.95	100	100	0.95	B7	P
985	289 130 000		5				30		REC		15mA	UX5	RR
986	289 300 000		5				60		REC		20mA	UX4	RR
994V	642 310 000		4	0	100			3.6	100		3.6	B5	T
1005	008 092 030		6				30		REC		15mA	A08	RR
1201	426 141 630		6	3	175		5.5	3	150		3	B8B	T
1201	892 300 000		25						D			B4	DD
1203	200 800 130		6						D			A08	D
1203A	200 800 130		6						D			A08	D
1204	526 141 310		6	2	250	100	1.75	1.2	100	100	1.2	B8B	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
I206	265 441 730		6	2.5	250	100	4.5	2.1	100	100	2.1	B8B	PP
I221	265 113 000	G <sub>1</sub>	6	3	250	100	2	1.22	100	100	1.2	UX6	P
I223	026 510 310	G <sub>1</sub>	6	3	250	100	2	1.22	100	100	1.2	A08	P
I229	265 300 000	G <sub>1</sub>	2	3	150	75	1.7	0.64	100	75	0.64	UX4	P
I230	264 300 000		2	9	150		3		100			UX4	T
I231	265 104 130		6	30	300	300	13	6.3	100	100	6.3	B8B	P
I232	265 114 130		6	2	250	100	6	4.5	100	100	4.5	B8B	P
I273	265 104 130		6	3	250	100	2.2	1.5	100	100	1.5	B8B	P
I274	028 090 310		6				30		REC		15mA	A08	RR
I275	289 300 000		5				120		REC		30mA	UX4	RR
I280	265 104 130		12.5	3	250	100	2.2	1.5	100	100	1.5	B8B	P
I282	265 114 130		6	2	300	150	10	5.8	100	150	5.8	B8B	P
I284	265 104 130		12.5	3	250	100	9	2	100	100	2	B8B	P
I288	364 204 730		1.4	0	90		5.2	1.85	80		1.85	A08	TT
I291	274 304 620		1.4		90		5.2	1.85	80		1.85	A08	TT
I292	364 204 730		1.4	0	90		5.2	1.85	80		1.85	A08	TT
I293	260 004 030		1.4		90		4.7	1.3	80		1.3	A08	T
I294	200 800 130		1.4						D			A08	D
I299	365 004 230		1.4	4.5	150	90	10.2	2.4	100	90	2.4	B8B	P
I560	289 300 000		5				60		REC		20mA	UX4	RR
I560	892 300 000		5				60		REC		20mA	B4	RR
I561	892 300 000		4				60		REC		20mA	B4	RR
I562	280 300 000		7.5				120		REC		30mA	UX4	R
I602	264 300 000		7.5	23.5	250		10	1.33	100		1.33	UX4	T
I603	265 113 000	G <sub>1</sub>	6	3	250	100	2	1.225	100	100	1.2	UX6	P
I609	364 520 000		1.1	1.5	125	75	2.5	0.725	100	75	0.72	UX5	P
I610	264 530 000		2.5	16.5	250	250	31	2.5	100	PenLF	3.8	UX5	P
I611	026 540 310		6	16.5	250	250	34	2.5	100	PenLF	2.5	A08	P
I612	026 540 310	G <sub>1</sub>	6	3	250	100	5.3	1.1	100	100	1.1	A08	H
I613	026 540 310		6	16.5	250	250	34	2.5	100	PenLF	2.5	A08	P
I614	026 540 310		6	18	350	250	54	5.2	100	PenLF	5.2	A08	P
I616	200 300 000	D <sub>1</sub>	2.5				120		REC		30mA	UX4	R
I619	026 540 310		2.5	10	300	250	45	4.5	100	PenLF	4.5	A08	P
I620	026 510 310	G <sub>1</sub>	6	3	250	100	2	1.225	100	100	1.2	A08	P
I621	026 540 310		6	16.5	250	250	34	2.5	100	PenLF	2.5	A08	P
I622	026 540 310		6	18	350	250	54	5.2	100	100	5.2	A08	P
I624	026 540 310		2.5	20	400	300	25		100	PenLF		A08	P
I626	026 040 310		12.5	32	250		20	2.1	100		2.1	A08	T
I631	026 540 310		12.5	18	350	250	54	5.2	100	PenLF	5.2	A08	P
I632	026 540 310		12.5	8	200	100	50	9.5	100	90	9	A08	P
I633	471 461 230		25	8	250		11.5	2.6	100		2.6	A08	TT
I634	074 461 230		12.5	2	250		2	1.325	150		1.3	A08	TT
I635	027 446 310		6	0	300		3.5	0.9	100		0.9	A08	TT
I637	026 500 310	G <sub>1</sub>	6	18	250	250	32	3.8	100	PenLF	3.8	A08	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
1638	029 180 310		6						D			A08	DD
1639	026 890 310	G <sub>1</sub>	6	5.5	250		5	2	100		2	A08	DDT
1644	414 752 360		12.5	9	175	175	13	2.15	100	100	2.1	A08	PP
1649	021 415 360		6	2	300	150	10	9	100	100	8	A08	P
1654	2** 00* 300	D <sub>1</sub>	1.4						D			B7G	D
1655	074 461 230		6	2	250		2	1.325	200		1.3	A08	TT
1659	268 913 000	G <sub>1</sub>	2.5	2	250		0.9	1.1	150		1.1	UX6	DDT
1662	364 526 300		1.4	8.4	150	90	13.3	1.9	100	75	1.9	B7G	P
1664	026 985 310	G <sub>1</sub>	2.5	3	250	125	10	1.325	100	100	1.3	A08	DDP
1801	892 300 000		4				15		REC		10mA	B4	RR
1805	892 300 000		4				30		REC		15mA	B4	RR
1807	892 300 000		4				30		REC		15mA	B4	RR
1810	003 200 000	D <sub>1</sub>	4				30		REC		15mA	B4	R
1815	892 300 000		4				60		REC		20mA	B4	RR
1817	892 300 000		4				120		REC		30mA	B4	RR
1831	892 300 000		4				30		REC		15mA	B4	RR
1851	021 415 360		6		300	150	10	9	100	100	8	A08	P
1852	021 415 360		6		300	150	10	9	100	100	8	A08	P
1853	021 415 360		6	3	300	200	12.5	5	100	150	5	A08	P
1861	892 300 000		4				60		REC		20mA	B4	RR
1867	389 200 000		4				60		REC		20mA	UX4	RR
1875	023 000 000	D <sub>1</sub>	4				5		D			8SC	R
1876	123 000 080		4				5		D			8SC	R
1877	002 300 000	D <sub>1</sub>	4				3		D			B4	R
1882	023 080 090		5				60		REC		20mA	8SC	RR
1883	023 080 090		5				60		REC		20mA	8SC	RR
2051	026 041 310		6		250		75	2.5kΩ	No Data Available			A08	Thyratron
2101	264 530 000		2	4.5	150	150	8	1.7	100	100	1.7	UX5	P
2102	268 943 000		2	1	100		2.5	1.3	100		1.3	UX6	DDT
2103	274 546 300		2	7.5	150	150	4	1.6	100	100	1.6	UX7	PP
2151	265 413 000		14	31	250	250	47	2.4	100	PenLF	2.4	UX6	P
2506	892 300 000		4				15		REC		10mA	B4	RR
3006	802 300 000		4						D			B4	D
3481	026 510 310	G <sub>1</sub>	6	13.5	150	150	5.5	1.8	100	100	1.8	A08	P
3720	364 200 000		5	1.5	175		0.2	0.2	150		0.2	UX4	T
3871	264 300 000		30	19	100	100	52	3.8	100	90	3.8	UX6	P
3872	364 200 000		2	9	150		3		100			UX4	T
3873	365 200 000	G <sub>1</sub>	2	3	150	75	1.7	0.64	100	75	0.6	UX4	P
3921	264 300 000		2.5	50	250		34	2.17	100		2.1	UX4	T
3924	265 130 000	G <sub>1</sub>	2.5	3	175	90	4	1	100	90	1	UX5	P
4019B	642 300 000		4	4	100		7.5	1.27	100		1.2	B4	T
4021B	642 300 000		4	8	125		23	3	100		3	B4	T
4033A	642 310 000		6	20	400		50	9	100		8	B5	T
4033L	642 310 000		6	20	400		60	10	100		8	B5	T
4033	264 130 000		6	20	400		50	9	100		8	UX5	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
4037A	802 300 000		4				120		REC		30mA	B4	R
4061A	205 411 300	A	6	10	400	200	50	2.5	100	150	2.5	B7	P
4074A	204 140 300	A <sub>1</sub> A <sub>2</sub>	6	13	300		15	3	100		3	UX7	TT
4077A	003 200 000	D <sub>1</sub>	5				120		REC		30mA	B4	R
4274A	289 300 000		5				120		REC		30mA	UX4	RR
4310A	265 113 000	G <sub>1</sub>	10	5.5	250	150	5.2	2	100	100	2	UX6	P
4328A	265 113 000	G <sub>1</sub>	7.5	5.5	250	175		2	100	150	2	UX6	P
4328D	026 510 310	G <sub>1</sub>	7.5	5.5	250	150	5.2	2	100	100	2	A08	P
4608	642 310 000		4	6	150		11	2.5	100		2.5	B5	T
4610	542 310 000	A	4	1.3	200	100	1.5	0.9	100	100	0.9	B5	P
4618	542 310 000	A	4	2	200	100	3	2.2	100	100	2.2	B5	P
4631	264 300 000		2	1.5	150		0.7		150			UX4	T
4652	892 300 000		4				60		REC		20mA	B4	RR
4657	642 310 000		4	1.5	200		1	2.2	200		2.2	B5	T
4670	432 564 570		2	8.5	90	90	1		80	75		8SC	PP
4673	642 310 000	G <sub>1</sub>	4	2.5	250	200	8	5	100	PenLF	5	B5	P
4673	023 110 560	G <sub>1</sub>	4	2.5	250	200	8	5	100	150	5	8SC	P
4682	023 100 560	G <sub>1</sub>	4		375	250	24		100	PenLF		8SC	P
4683	023 004 060		4		350		43		100			8SC	T
4684	023 104 560		4		375	250	24		100	PenLF		8SC	P
4688	023 104 560		4		375	275	48		100	PenLF		8SC	P
4689	023 104 560		6		375	275	48		100	PenLF		8SC	P
4694	023 104 560				375	250	24		100	PenLF		8SC	P
4699	023 104 560		6	12.5	300	300	55	13	100	PenLF	9	8SC	P
5516	235 242 300	A	3	14	400	250	75	4	100	PenLF	4	A08	P
5590	412 365 100		6		90	90	3.9	2	80	90	2	B7G	P
5591	412 365 100		6		175	150	10		150	100		B7G	P
5603	021 415 360		6		150	150	50	5.4	100	100	5.4	A08	P
5608	412 365 100		6	12	125	125	7.5	5	100	90	5	B7G	P
5618	265 134 200		3	8	275	75	19	3.5	100	60	3.5	B7G	P
5654	412 365 100		6	2	125	125	7.5	5	100	100	5	B7G	P
5659	026 540 310		12.5	12.5	250	250	32		100	PenLF		A08	P
5660	026 895 310	G <sub>1</sub>	12.5	3	250	125	10	1.325	100	100	1.3	A08	DDP
5661	021 415 360		12.5	0.4	250	100	9.2	2	100	100	2	A08	P
5670	214 607 413		6	2	150		8.2	5.5	125		5.5	B9A	TT
5679	218 309 120		6				5		D			B8B	RR
5686	141 235 615		6	12.5	250	250			No data available			B9A	P
5687	641 221 437		6	12.5	250		16	4.1	100		4.1	B9A	TT
5690	238 192 310		6				120		REC		30mA	A08	RR
5691	471 461 230		6	2	250		2.3	1.6	150		1.6	A08	TT
5692	471 461 230		6	9	250		6.5	2.2	100		2.2	A08	TT
5693	021 415 360		6	3	250	100	3	1.65	100	100	1.6	A08	P
5722	902 208 300		3						D			B7G	D
5725	412 365 100		6	2	125	125	5.5	3.5	100	100	3.5	B7G	P
5726	192 310 800		6				5		D			B7G	RR

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
5749	412 365 100		6	1	250	100	11	4.4	100	100	4.4	B7G	P
5750	412 366 400		6	2	100		11	7.0	100		6	B7G	H
5751	741 226 413		6	3.0	250		1.0	1.2	150		1.6	B9A	TT
5763	601 235 144		6	7.5	250	250	45	7	100	PenLF	7	B9A	P
5812	413 365 200		3	23	250	250	40	4.1	100	PenLF	4.1	B7G	P
5814	741 226 413		6	8.5	250		10.5	2.2	100		2.2	B9A	TT
5879	401 230 561		6	3	250	100	1.8	1	100	100	1	B9A	P
5881	026 540 310		6	12.5	300	200	48	5.3	100	150	5	A08	P
5915	412 365 100		6	0	75	75	6.3	2	80	75	2	B7G	H
5963	741 226 413		6	0	75		8	2.8	80		2.8	B9A	TT
5964	762 344 100		6	1	100		9.5	6	100		6	B7G	TT
5965	741 226 413		6	1.8	150		8.2	6.5	150		6.0	B9A	TT
6005	412 365 400		6	12.5	250	250	45	4	100	150	4	B7G	P
6042	461 471 230		25	8	250		9	2.6	100		2.6	A08	TT
6057	741 226 413		6	2	250		1.2	1.6	150		1.6	B9A	TT
6058	192 310 800		6				5		D			B7G	RR
6059	041 230 651		6	3	250	100	2	1.225	100	100	1.2	B9A	P
6060	741 226 413		6	2	250		10	5.5	200		5	B9A	TT
6061	*41 230 651		6	13	300	225	34	3.75	100	150	3.7	B9A	P
6062	601 235 144		6	7.5	250	250	45	7	100	150	7	B9A	P
6063	802 309 100		6				30		REC		15mA	B7G	RR
6064	412 361 500		6	2	250	250	10	7.5	100	150	5	B7G	P
6065	412 361 500			2.5	250	250	8	2.5	100	100	2.5	B7G	P
6066	412 389 600		6	3	250		1	1.2	150		1.2	B7G	DDT
6067	741 226 413		6	8.5	250		10.5	2.2	100		2.2	B9A	TT
6072	741 226 413		6	4	250		3	1.75	100		1.7	B9A	TT
6080	471 461 230		6	30	100		100	7	No Data Available			A08	TT
6082	471 461 230		26.5	30	100		100	7	No Data Available			A08	TT
6100	602 364 100		6	8.5	250		10.5	2.2	100		3.0	B7G	T
6101	762 344 100		6	2	150		9	5.5	100		6	B7G	TT
6132	*41 230 651		6	4.5	250	250	40	11	100	150	9	B9A	P
6135	6*2 364 100		6	8.5	250		10.5	2.2	100		2.2	B7G	T
6136	412 365 100		6	1.0	250	150	10.6	5.2	100	150	5	B7G	P
6137	021 415 360		6	3	250	100	9.2	2	100	100	2	A08	P
6146	125 141 130	A	6	30	200	200	100	7	No Data Available			A08	P
6153T	023 164 570	G <sub>1</sub>	6	2	100		16	5	100		5	8SC	TH
				2	250	100	12	3.5	100	100	3		
6156	412 360 500		6	13.5	250	250	16	2.6	100	150	2.6	B7G	P
6157	**1 23* ***	D <sub>1</sub>	6				120		REC		30mA	B9A	R
6158	741 226 413		6	4.6	250		6	2.3	100		2.3	B9A	TT
6159	125 141 130	A	26	30	200	200	100	7	No Data Available			A08	P
6180	461 471 230		6	8	250		9	2.6	100		2.6	A08	TT
6197	145 236 154		6	3	250	150	30	11	100	150	10	B9A	P
6201	741 226 413		6	2	250		10	5.5	100		5	B9A	TT
6211	741 226 413		6	2	100		4.6	3.6	100		3.6	B9A	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6293	125 141 300	A	6		200	200	100	7.3	No data available			A08	P
6305	112 311 100	D <sub>1</sub>	4				5		REC		5mA	B7G	R
6417	601 235 144		12.5	7.5	250	250	45	7	100	150	7	B9A	P
6443	**1 23* ***	D <sub>1</sub>	6				120		REC		36mA	B9A	R
7000	026 510 310	G <sub>1</sub>	6	3	250	100	2	1.225	100	100	1.2	A08	P
7184	026 540 360		6	15	250	250	70		100	PenLF		A08	P
7193	020 000 310	A <sub>1</sub> G <sub>1</sub>	6	10.5	300		11	3	100		3	A08	T
7700	265 113 000	G <sub>1</sub>	6	3	250	100	2		100	100		UX6	P
7752	412 365 100		6	2	125	125	5.5	3.5	100	100	3.5	B7G	P
7755	412 365 100		6		30	30	3	2.75	No Data Available			B7G	P
7756	106 052 430		6	36	300	300	58	4.3	100	PenLF	4.3	A08	P
8013A	200 300 000	D <sub>1</sub>	2.5				15		REC		10mA	B4	R
8020	200 300 000	D <sub>1</sub>	5				120		REC		30mA	UX4	R
9001	412 365 100		6	3	250	100	2	1.4	100	100	1.4	B7G	P
9002	612 364 100		6	7	250		6.3	2.2	100		2.2	B7G	T
9003	412 365 100		6	3	250	100	6.7	1.8	100	100	1.8	B7G	P
9006	812 380 100		6				5		D			B7G	R
18040	265 104 130		18	3.4	200	200	15	10	100	150	10	B8B	P
18042	541 236 **1		18	1.8	200	100	8.3	8.2	100	100	8	B9A	P
18045	041 230 651		18	3	200	200	20	11	100	150	10	B9A	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA FOR TUNING INDICATORS					BASE
				Neg Grid Volts	Anode Volts	Target Volts	Ia mA	Ra M Ω	
AC/ME	045 231 600		4	22	250	250	0.24	1	B7
AM1	023 104 560		4	5	250	250	0.095	2	8SC
DM21	206 540 030		1.4		90	90	0.025	2	A08
EM1	023 104 560		6	5	250	250	0.095	2	8SC
EM3	023 104 560		6	18	200	200	0.176	1	8SC
EM4	023 164 560		6	{ 4.2 12.5	200 200	200 200		{ 1 1	{ 8SC
EM31	026 540 310		6	5	250	250		2	A08
EM34	026 456 310		6	{ 5 16	250 250	250 250		{ 1 1	{ A08
EM35	026 540 310		6	22	250	250		1	A08
E130	026 540 310		6	15	250	250		1	A08
E1320	026 540 310		6	11	250	250	4	1	A08
FT4	026 540 310		4	6	250	250		1	A08
ME4S	023 104 560		4	5	250	250		2	8SC
ME6S	023 104 560		6	5	250	250		2	8SC
ME41	216 040 530		4	22.5	250	250	0.23	1	M08

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA FOR TUNING INDICATORS					BASE
				Neg Grid Volts	Anode Volts	Target Volts	Ia mA	Ra MΩ	
ME91	216 040 530		9	17	150	150	0.135	1	M08
ME920	045 231 600		9	19	175	175	0.18	1	B7
PM5	206 546 130		6	{ 15 5	200 200	200 200		1 1	A08
TV4	023 104 560		4	5	250	250		1	8SC
UM34	025 465 310		12.5	{ 5 16	250 250	250 250	1	1 1	A08
VFT4	026 540 310		4	20	250	250		1	A08
VME4	045 231 600		4	22	250	250		1	B7
VTF6	026 540 310		6	22	200	200		1	A08
Y61	026 540 310		6	22	250	250	0.24	1	A08
Y62	026 540 310		6	22	250	250		1	A08
Y63	026 540 310		6	22	250	250	0.24	1	A08
Y64	026 540 310		6	22	250	250		1	A08
Y65	026 540 310		6	11	250	250		1	A08
2E5	264 513 000		2.5	8	250	250	0.24	1	A08
6AB5	264 513 000		6	15.5	150	150	0.13	1	UX6
6AF7	026 457 310		6	{ 4.5 15	200 200	200 200	0.16 0.15	1 1	A08
6E5	264 513 000		6	7.5	250	250	0.2	1	UX6
6G5	264 513 000		6	22	250	250	0.24	1	UX6
6H5	264 513 000		6	22	250	250	0.24	1	UX6
6M1	026 540 310		6	22.5	250	250	0.23	1	A08
6N5	264 513 000		6	15.5	150	150	0.13	1	UX6
6T5	264 513 000		6	22	250	250		1	UX6
6U5	264 513 000		6	22	250	250	0.24	1	UX6
41ME	023 104 560		4	5	250	250		1	8SC
63ME	026 540 310		6	22	250	250	0.25	1	A08
64ME	026 457 310		6	{ 16 2.5	250 250	250 250		1 1	A08
1629	026 540 310		12.5	8	250	250	0.24	1	A08
4678	023 104 560		6	5	250	250	0.095	2	8SC

# STOP PRESS DATA

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
AB2	902 310 000	D <sub>1</sub>	4						D			B5	DD
AC054	642 300 000		4	22	250		48	3.5				B4	T
B339	741 226 413		6	2	250		1.2	1.6	150		1.6	B9A	T
C3M	261 504 130		20	4.5	225	150	15.0	6.0	No Data Available			B8B	P
CK3	461 230 650	G <sub>1</sub>	19	15	200	100	2.5		No Data Available			S8	O
CY1c	803 210 000		20				60		REC		20mA	B5	R
DAF70	604 238 050		1.25	0	60	60	.8	.45	No Data Available			B8D	DP
DC70	400 230 060		1.25	4.5	150		12	3.4	150		3.4	B8D	TT
DCC90	274 346 200		1.4	2.5	90		3.7	1.8	90		1.8	B7G	TT
DC90	266 044 300		1.4	3.0	90		3.0	1.1	9.0		1.1	B7G	T
DDA1	892 310 000		4						D			B5	DD
DD6	192 310 800		6			5.0			D			B7G	DD
DF70	*4* 23* 650		.625	0	40	40	.37	.22	No Data Available			B8D	P
DF72	*40 230 650		1.25	0	60	60	1.7	1.0	No Data Available			B8D	P
DF73	*40 230 650		1.25	0	60	60	1.7	.8	No Data Available			B8D	P
DL70	*4* 23* 650		1.25	8.5	150	90	7.0	1.0	150	90	1.0	B8D	P
DL71	*40 230 650		1.25	1.25	40	40	.6	.55	No Data Available			B8D	P
DL72	402 306 500		1.25	4.5	40	40	1.25	.5	No Data Available			B8D	P
DL75	*40 230 650		1.25	3.0	90	90	1.3	.67	90	90	.67	B8D	P
DO42	918 236 500	G <sub>1</sub>	4	6	250	250	36	9.5	100	150	8.0	B7	DDP
D400	892 310 000		4						D			B5	D
EBC81	641 238 090		6	3	250		1.0	1.2	250		1.2	B8A	DDT
EBC91	412 389 600		6	2	250		1.2	1.6	200		1.6	B7G	DDT
EBL71	264 589 130		6	5	250	250	44	9.5	250	200	9.5	A08	DDP
ECF82	645 237 114		6	{	1.0	100	18.0	8.5	100	60	7.0		
					1.0	250	10.0	5.2	100	100	5.0	B9A	TP
EC31	026 040 310		6	16	250		20.0	3.2	250		3.2	A08	T
EC93	642 314 600		6	4	100		16.0	8.0	100		8	B7G	T
EE1	011 230 640	G <sub>1</sub>	6	2.4	250	150	8.0	17.0	No Data Available			S8	TP
EF89	041 230 651		6	2.0	250	100	9.0	3.6	250	100	3.6	B9A	P
EF94	412 365 100		6	1.0	250	100	10.6	5.2	100	150	5.2	B7G	P
EF96	412 365 100		6	1.5	250	150	6.5	5.0	100	100	5.0	B7G	P
EZ81	8*1 23* 9**		6				75.0		REC		25mA	B9A	RR
E180F	141 23* 615		6	1.0	200	150	13.1	16.5	No Data Available			B9A	P
G/5749	412 365 100		6	1.0	250	100	11	4.4	100	100	4.4	B7G	P
G/5750	412 366 400		6	2.0	100		11	7.0	100		6	B7G	H
G/6059	041 230 651		6	3	250	100	2	1.22	100	100	1.2	B7G	P
G/6042	461 471 230		25	8	250		9	2.6	100		2.6	A08	TT
G/6061	*41 230 651		6	13.0	300	225	35	3.75	100	150	3.7	B9A	P
G/6062	601 235 144		6	7.5	250	250	45	7.0	100	150	7.0	B9A	P
G/6060	741 226 413		6	2.0	250		10	5.5	200		5.0	B9A	TT
G/6066	412 389 600		6	3.0	250		1.0	1.2	150		1.2	B7G	DDT
G/6100	602 364 100		6	8.5	250		10.5	2.2	100		3.0	B7G	T



# STOP PRESS DATA (Cont.)

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
G/6132	*41 230 651		6	4.5	250	250	40	11.0	100	150	9	B9A	P
G/6157	**1 23* ***	D <sub>1</sub>	6				120		REC		30mA	B9A	R
G/6158	744 226 413		6	4.6	250		6.0	2.3	100		2.3	B9A	TT
G/6180	461 471 230		6	8	250		9	2.6	100		2.6	A08	TT
G/6443	**1 23* ***	D <sub>1</sub>	6				120		REC		33mA	B9A	R
G/6516	412 360 500		6	12.5	250	250	16	2.6	100	PenLF	2.6	B7G	P
GN24	892 300 000		4				30		REC		15mA	B4	RR
G431	892 300 000		4				30		REC		15mA	B5	RR
G470	892 300 000		4				30		REC		15mA	B4	RR
G2080	802 310 000		20				60		REC		20mA	B5	R
G4120	892 300 000		4				60		REC		20mA	B5	RR
HD2	682 390 000	G <sub>1</sub>	2	1.5	150		1.95	1.2	125		1.2	B5	DDT
IW2a	892 300 000		4				60		REC		20mA	B5	RR
IW4	893 200 000		4				60		REC		20mA	B4	RR
KB2	289 130 000		2						D			S5	DD
K77B	446 235 700		2	11.7	150	150	3.8		100	100		B7	PP
K80A	645 230 700		2	{ 0	150	50	2		150	60			
				{ 0	150	75	0.95		150	75		B7	O
K80B	645 230 700	G <sub>1</sub>	2	{ 0	150	150	2.1		150	60			
				{ 0	150	150	0.7		150	60		B7	O
K435-10	642 300 000		4	3.0	300		50	5.0	100		5.0	B4	T
L2/B	642 300 000		2	3.8	150		4	1.5	125		1.5	B4	T
ME1400	026 510 310	A	4.5	2	40	40	8	24	No Data Available			A08	P
MS4c	542 310 000	A	4	1	200	75	3.4	3.2	200	75	3.2	B5	P
NIX2	*41 23* *51	A	21.5	28	200	200	40	6	100	100	6	B9A	P
NI54	*41 23* 6*5		16	14.2	200	200	45	8.2	100	100	7	B9A	P
OM5A	026 510 310	G <sub>1</sub>	6	2	250	100	3.0	1.8	100	100	1.8	A08	P
OM5B	026 510 310	G <sub>1</sub>	6	2	250	100	3.0	1.8	100	100	1.8	A08	P
O54V	642 310 000		4	0	100		4.0		100		4.0	B4	T
O202	645 230 700	G <sub>1</sub>	2	{ 0	150	50	2.0		150	60		B7	O
				{ 0	150	75	0.95		150	75		B7	O
O406	645 231 700	G <sub>1</sub>	4	{ 4	90	75	2.0	1.3	80	75			
				{ 4	250	75	2.6	2.0	200	75		8Sc	O
O1307	645 231 700	G <sub>1</sub>	13	{ 3.0	90	75	2.0	1.3	80	75		B7	O
				{ 2.0	200	75	2.6	2.0	200	75			
O1307	023 164 570	G <sub>1</sub>	13	{ 3.0	90	75	2.0	1.3	80	75			
				{ 2.0	200	75	2.6	2.0	200	75		B7	O
PBI	234 600 000		2	4.0	150		11.5	3.85	150		3.85	B4	T
PCL82	414 006 517		16	{ 0	100		4	3.0	No Data Available			B9A	TP
				{ 11	170	170	41	7.5					
Pen4v	642 310 000	G <sub>2</sub>	4	10	250	200	35	3.0	No Data Available			B5	P
Pen230	642 350 000		2	4.5	150	125	6.0	2.2	150	125	2.2	B5	P
PL36	*2* 540 310		25	21.0	170	170	8	11.0	No Data Available			A08	P

# STOP PRESS DATA (Cont.)

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
PP6BS	026 540 310		6	6.0	250	250	36.0	9.0	No Data Available			A08	P
PY32	028 03* 310		29				180		REC			A08	R
P225	642 350 000		2	4.5	150	150	5.6	2.2	100	100	2.2	B5	P
P435	642 350 000		4	17	250	250	30	3	100	Pen LF	3	B5	P
P440N	045 231 600		4	22.0	250	250	36	2.8	100	Pen LF	2.8	B7	P
P441n	045 231 600		4	22	250	250	36	2.8	100	Pen LF	2.8	B7	P
QA2402	412 36* 500		6	7.0	250	250	16.0	2.6	250	200	7.0	B7G	P
QQE06-40	245 134 200	A <sub>1</sub> A <sub>2</sub>	6		400	250	30	3.4	No Data Available			B7A	PP
QQV06-40	245 134 200	A <sub>1</sub> A <sub>2</sub>	6		400	250	30	3.4	No Data Available			B7A	PP
QQ03-12	601 235 144		6		300	250	45	7	No Data Available			B9A	P
RL7	265 114 113		6	1.7	250	250	10.0	7.7	100	150	7.0	B9G	P
RL18	241 600 003		6	2.6	250		10.0	6.5	100		6.4	B9G	T
SD2	642 300 000		2	1.5	150		2.2	1.4	150		1.4	B4	T
SP4C	023 110 560	G <sub>1</sub>	4	2.4	250	250	4	3.4	100	100	3.4	B7	P
S435n	542 310 000	A	4	2	200	100	3.0	2.3	100	100	2.3	B5	P
TDD1C	023 189 060		13	5.0	200		4.0	2.0	100		2.0	B7	DDT
T6D	123 000 000	D <sub>1</sub>	6						D			B3G	D
UABC80	181 239 146		28	1.0	100		0.8	1.45	100		1.45	B9A	DDDT
UB41	201 809 130		19						D			B8G	DD
UCH71	276 454 131		20	{ 2.0 2.0	100 200		16.4 5.2	2.2 2.2	100 100		3.2 2.2	B8B	TH
UC92	602 304 100		9.5	1.0	200		11.5	6.4	200		6.4	B7G	T
UD2	642 300 000		2	12.0	150		14.0	2.5	100		2.5	B4	T
UF43	260 154 130		21	1.1	170	170	5.8		No Data Available			B8A	P
UF80	141 230 651		19	2.0	170	170	10.0	7.4	No Data Available			B8A	P
UF85	141 231 651		19	2.0	170	100	9.7	5.9	200	100	6.0	B9A	P
UF89	041 230 651		12.6	2.0	200	200	11.1	3.8	200	200	3.8	B9A	P
URI	023 100 080		20				120		REC		23mA	8SC	R
UR2	123 180 090		30				60		REC		20mA	8SC	RR
UR3	123 180 090		30				60		REC		20mA		RR
UY85	001 230 008		38				120		REC		25mA	B9A	R
VS210	542 300 000		2	2.5	125	60	2.0	1.4	100	60	1.4	B4	P
WD70	541 236 891		6	2.0	250	90	5.0	2.2	100	90	2.2	B9A	DDP
W719	141 230 651		6	2.0	250	100	10.0	6.0	150	100	5.0	B9A	P
X719	541 237 651		6	{ 3.0 2.0	100 250		5.0 6.5	2.3 2.4	100 150		2.3 2.4	B9A	TH
OO	364 200 000		5	0	40		1.5	0.66	No Data Available			UX4	T
OI	364 200 000		5	4.5	90		2.5		No Data Available			UX4	T
OIAA	364 200 000		5	4.5	90		3.2	0.85	90		0.85	UX4	T
OIB	364 200 000		5	4.5	90		2.5	0.72	90		0.72	UX4	T
O84	642 300 000		4	2.0	125		4.0	1.4	125		1.4	B4	T
IAB6	265 461 300		1.4	1.4	75	40			No Data Available			B7G	H

## STOP PRESS DATA (Cont.)

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
IAC5	*4* 23* 650		1.25	4.5	60	60	2.0	0.75	60	60	0.75	A08	P
IAD5	*4* 23* 650		1.25	3.0	60	60	1.85	0.73	60	60	0.73	A08	P
IAE4	265 024 300		1.25	0	90	90	3.5	1.55	90	90	1.55	B7G	P
IAH5	208 564 300		1.4	1.5	60	60	0.17	0.17	60	60	0.17	B7G	DP
IAJ4	265 *24 300		1.4	0.8	75	75	1.4	0.65	80	75	0.75	B7G	P
IB3	020 000 300		1.25						D			A08	D
IC	289 300 000		6				1.0	D			UX4		D
IE3	402 230 060		1.2	0	150		20.0	3.5	No Data Available			B9A	T
ID5eg	026 500 300	G <sub>1</sub>	2	3.0	125	60	2.2	0.68	No Data Available			A08	T
IFI	265 024 300		1.4	0	60	60	1.65	0.75	60	60	0.75	B7G	P
ILD5	265 804 030		1.4	0	90	40	0.6	0.575	No Data Available			B8B	DP
IL60	642 300 000		1.0		150		6.0	1.2	150		1.2	B4	T
IQ6	040 238 650		1.25	0	60	60	1.6	0.6	No Data Available			A08	P
IX2	230 232 032	A	1.25						D			B9A	D
2DI3	023 180 000	D <sub>2</sub>	13						D			B5	DD
2DI3a	823 190 000		13						D			B5	DD
2F7	275 641 300	G <sub>1</sub>	2.5	{ 3.0	100		4.0						
				{ 3.0	250	100	2.8		No Data Available			UX7	TP
2K2	026 500 300		2	2.0	100	100	2.5	0.9	100	100	0.9	A08	P
3AV6	412 398 600		3	2.0	250		1.2	1.6	200		1.6	B7G	DDT
3B2	*2* 0** 3*0	D <sub>1</sub>	3						D			B8A	D
3B4	524 332 600		1.25	75.0	150	125		1.7	No Data Available			B7G	P
3BC5	412 365 100		3	1.3	250	150	7.5	5.7	100	150	5.7	B7G	P
3BY6	412 365 400		3	2.5	250	100	6.5	2.4	100	100	2.0	B7G	H
3BZ6	412 265 100		3	2.3	200	150	11.0	6.1	200	150	6.0	B7G	P
3C4	265 *24 300		1.4	0.8	75	75	1.4	0.65	80	75	0.75	B7G	P
3CB6	412 365 100		3	2.2	200	150	9.5	6.2	100	150	6.0	B7G	P
3LF4	265 004 320		1.4	4.5	90	90	9.5	2.2	No Data Available			B8B	P
4BC8	741 236 410		4	2.2	150		10.0	6.2	150		2.2	B9A	TT
5AQ5	412 365 400		5	12.5	250	250	45.0	4.1	100	Pen. LF	4.0	B7G	P
5AV8	146 234 157		6	6	200		13.0	3.3	No Data Available			B9A	TP
5AW4	020 809 030		5				120		REC		40mA	A08	RR
5AX4	020 809 030		5				60		REC		20mA	A08	RR
5AZ4	020 809 030		5				60		REC		20mA	A08	RR
5V6	026 540 310			12.5	250	250	45.0	4.1	100	Pen. LF	4.0	A08	P
6AD8	541 236 891		6	2.0	250	85	6.7	2.3	No Data Available			B9A	DDP
6AJ8	541 237 164		6	{ 3.0	100		5.0	2.3	100		2.3		
				{ 2.0	250	100	6.5	2.4	150	100	2.4	B9A	TH
6AN7	541 236 074		6	{ 2.0	100		5.0	2.0	100		2.8		
				{ 2.0	250	100	3.0	.75	100	100		B9A	TP
6AQ4	412 314 600		6	2.0	250		6.0	8.5	200		8.0	B7G	T
6AQ6	412 389 600		3	3.0	250		1.0	1.2	100		1.1	B7G	DDT
6BC8	741 236 410		6	2.2	150		10.0	6.2	150		2.2	B9A	TT

# STOP PRESS DATA (Cont.)

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6BD7	64I 238 09*		6	3.0	250		1.0	1.2	100		1.0	B9A	DDT
6BH5	54I 236 000		6	2.5	250	100	6.0	1.7	150	100	1.7	B9A	P
6BH8	146 231 457		6	{ 5.0 1.6	150 200		9.5 15.0	3.3 7.0	No Data Available			B9A	TP
6BN5	44I 231 615		6	10.8	225	225	26.0	3.2	100	150	3.2	B9A	P
6BZ6	412 365 100		6	2.3	200	150	11.0	6.1	200	150	6.0	B7G	P
6BZ7	64I 237 410		6	7.0	150		10.0	6.8	150		6.8	B9A	TT
6CA7	126 540 310		6	14.5	250	250	67.0	9.0	100	100	9.0	A08	P
6CG7	64I 237 410		6	8.0	250		9.0	2.6	250		2.6	B9G	TT
6CK6	54I 231 600		6	5.5	250	250	36.0	10.0	100	150	9.0	B9A	P
6CH7	54I 237 411		6	7.0	150		10.0	6.8	150		6.8	B9A	TT
6CQ6	412 361 500		6	2.5	250	200	8.0	2.5	100	150	2.5	B7G	P
6CM7	70I 236 44I		6	{ 7.0 8.0	200 250		5.0 20.0	2.0 4.4	No Data Available			B9A	TT
6CN6	120 540 130	A	6	7.0	250	250	10.0	14.3	100	150	10.0	A08	P
6CN7	89I 331 462		3	1.0	100		1.0	1.2	100		1.2	B9A	DDT
6CQ6	412 361 500		6	2.5	250	200	8.0	2.5	100	150	2.5	B7G	P
6CR6	182 365 400		6		250	100	9.5	1.95	250	100	1.95	B7G	DT
6DA6	04I 230 651		6	2.0	250	100	9.0	3.6	250	100	3.6	B9A	P
6DE6	412 365 100		6	2.2	200	150	9.5	6.2	200	150	9.5	B7G	P
6M5	54I 230 600		6	7.0	250	250	36.0	10.0	100	100	10.0	B9A	P
6V4	8*1 23* 9**		6				30		REC		15mA	B9A	RR
12AB5	504 234 156		12	12.5	250	250	45.0	4.1	250	200	4.0	B9A	P
12A4	142 330 406		6	9.0	250		3.0	8.0	250		8.0	B9A	T
12B4	142 330 406		6	17.5	150		34.0	6.4	150		6.3	B9A	T
12BK5	604 231 450		12	5.0	250	250	35.0	8.5	100	150	8.0	B9A	P
12BY7	141 223 561		6		250	150	25.0	12	No Data Available			B9A	P
19AJ8	54I 237 164		19	{ 3.0 2.0	100 250	100	5.0 6.5	2.3 2.4	100 150		2.3 2.4	B9A	TH
19AU4	00I 080 230		19				120		REC	100	40mA	A08	R
19D8	54I 237 464		19	{ 0 2.6	100 200	125	13.5 7.6	3.7 2.4	100 100	100	3.7 2.4	B9A	TH
28AX8	8†I 239 146		28	1.0	100		0.8	1.4	100		1.45	B9A	DDDT
182I	892 300 000		4				30		REC		15mA	B4	RR
4654	41I 230 050	A	6	14	250	275	72.0	8.5	No Data Available			S8	P
564I	082 813 080		6				30		REC		15mA	M8	R
5647	38I 280 000		6				5.0		D			M5	D
5718	462 603 160		6	2.0	100		13.0	5.5	100		5.5	M8	T
5840	412 163 510		6	1.4	100	100	7.0	5.0	100	100	5.0	M8	P
5899	412 163 510		6	2.0	100	100	13.0	5.5	100	100	5.0	M8	P
6267	50I 236 014		6	1.0	250	100	3.0	1.85	100	100	1.8	B9A	P
6374	**I 23* **8	D <sub>1</sub>	6				120		REC		30mA	B9A	R
6375	400 230 060		1.25	4.5	150		12.0	3.4	150		3.4	B8D	T
6488	412 653 160		6	2.0	100	100	7.5	5.0	100	100	5.0	M8	P
6516	412 360 500		6	13.5	250	250	16.0	2.6	100	150	2.6	B7G	P
8016	020 000 030	D <sub>1</sub>	1.25						D			A08	D



